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WING SURFACE PRESSURE DATA FROM LARGE-SCALE WIND-TUNNEL TESTS OF A PROPELLER-DRIVEN STOL MODEL

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V. Robert Page

Ames Research Center Moffett Field, Calif.

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Army Aeronautical Research Laboratory Moffett Field, Calif.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - WASHINGTON, D. C. - MARCH 1968

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#### TESTS OF A PROPELLER-DRIVEN STOL MODEL

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#### SUMMARY

The model tested is representative of a propeller-driven STOL transport aircraft. The variables include the effect of: trailing-edge flap deflection (0° to 100°), spanwise variation of propeller thrust, wing leading-edge slats, and propeller thrust and rotation on the three wing spans tested. Wing pressure distribution data and integrated chordwise normal-force coefficients are tabulated.

#### INTRODUCTION

A systematic study of an advanced propeller-driven STOL aircraft is presently being conducted in the 40- by 80-Foot Wind Tunnel at Ames Research Center. The large-scale model used in the program is typical of a conventional propeller-driven transport airplane capable of operating in and out of 1000 to 2000 foot runways.

The longitudinal force data from the first phase of this investigation are presented in reference 1. To supplement that data, the wing's surface pressure data were tabulated and a portion is presented herein without discussion.

#### NOTATION

- b wing span, ft
- c wing chord parallel to fuselage center line, ft
- $\bar{c}$  mean aerodynamic chord,  $\frac{2}{S} \int_{0}^{b/2} c^{2} dy$ , ft

CNtotal chordwise normal-force coefficient per unit span,  $\int_0^{1.0} (CP_L - CP_U) d\left(\frac{x}{c}\right)$ pressure coefficient,  $\frac{P_l - P_s}{0}$ CP D propeller diameter, ft propeller advance ratio,  $\frac{V}{nD}$ J n propeller rotational velocity, rps P, local static pressure, lb/sq ft free-stream static pressure, lb/sq ft Q free-stream dynamic pressure, lb/sq ft Reynolds number,  $\frac{\rho Vc}{..}$ R r propeller blade radius, ft S wing area, sq ft T total thrust of all four propellers, 1b thrust coefficient,  $\frac{T}{OS}$ TCP,T V free-stream tunnel velocity, fps Χ chordwise station measured from leading edge along airfoil chord line, ft lateral distance from airplane center line У ALPHA, a wing angle of attack, uncorrected for wind-tunnel wall effects, deg propeller blade angle at 3/4 r for inboard and outboard propeller,  $\beta_{\mathsf{T}}, \beta_{\mathsf{O}}$ respectively, deg total aft flap deflection relative to local wing chord, deg  $\delta_{\mathbf{f}}$  $\delta f \frac{xx}{xx}$ differential spanwise flap deflection. Numerator is for flap inboard of midpoint between nacelles; denominator is for flap outboard (e.g.,  $\delta_f \frac{100}{60} = \frac{100^{\circ} \text{ inboard}}{60^{\circ} \text{ outboard}}$ ) coefficient of viscosity, slugs/ft-sec μ

mass density of air, slugs/ft3

ρ

#### Subscripts

- L lower surface
- U upper surface

#### MODEL AND APPARATUS

Figures 1(a) and (b) show the model installed in the 40- by 80-foot test section.

The airfoil section of the wing was an NACA  $63_2$ -416 with the reflex on the aft portion of the lower surface faired out. The short wing span was 43.34 feet with an aspect ratio of 5.71. Short wing tip extensions changed the span to 47.94 feet and longer tip extensions changed the span to 56 feet with an aspect ratio of 8.06. The wing and tail geometry may be found in table I. A three view of the model is presented in figure 2(a).

A cross section of the wing leading-edge slat and trailing-edge triple slotted flap is shown in figure 2(b). The trailing-edge flap could be deflected  $100^{\circ}$  with respect to the wing chord line. To deflect the flap  $80^{\circ}$  or less the foreflap was set at one half the total deflection of the aft flap. For a  $100^{\circ}$  flap deflection the foreflap was deflected  $40^{\circ}$ . Coordinates for the wing leading-edge slat, trailing-edge foreflap, fixed vane, and aft flap are listed in table II. Table III shows the location and numbering system of the pressure orifices on the right wing and airfoil section of the model. The local pressure at each orifice was sequentially sensed by a pressure transducer common to one station and then automatically recorded.

Normal force coefficients were calculated by a computer program based on Simpson's rule.

The geometric characteristics of the three-bladed model propellers are presented in figure 3. The solid aluminum model propellers were 9.3 feet in diameter and had an activity factor of 121 per blade. Each propeller was shaft mounted on a gearbox and driven by an electric motor. The four motors were operated in parallel from a variable frequency power supply.

#### TEST AND PROCEDURE

Tests were made at free-stream velocities of 31 to 49 knots (q = 3.1 to 8 psf, corresponding to a range of Reynolds numbers from 2.4 to 4.1 million). For each run the model angle of attack was varied while the tunnel dynamic pressure, propeller speed, and propeller blade angle were held fixed. For runs with all propellers set for equal thrust, the propellers were set at a blade angle of  $16^{\circ}$  at the three-quarter radius station. To obtain differential thrust the inboard propeller blade angle was left at  $16^{\circ}$  while the

outboard propeller blade angle was set at  $0^{\circ}$ . With this blade setting, and inboard thrust assumed to be independent of outboard thrust, the two inboard propellers produced a high positive value of thrust while the two outboard propellers gave a slightly negative value.

#### DATA PRESENTATION

Table IV is an index to pressure data tabulated in tables V-1-99. Each table of data lists the run and point number, free-stream dynamic pressure, angle of attack, and the thrust coefficient. As table III indicates, the pressure measurement stations are listed as valves and are numbered as shown inboard to outboard. The chordwise locations of the pressure orifices are given in the first column of tables V-1-99 (loox). The locations are in percent chord starting at the leading edge of the wing, reading from front to rear on the upper surface, and then from front to rear on the lower surface. Opposite the chordwise station is listed the pressure coefficient at that point. At the bottom of the table the total normal force coefficient is listed for each spanwise station.

Ames Research Center
National Aeronautics and Space Administration
Moffett Field, Calif., 94035, Nov. 16, 1967
721-01-00-16-00-21

#### REFERENCE

1. Page, V. Robert; Dickinson, Stanley O.; and Deckert, Wallace H.: Large-Scale Wind-Tunnel Tests of a Deflected Slipstream STOL Model With an Immersed Wing of Aspect Ratio 5.7 and Extended Wing Tips to Aspect Ratio 8.1. NASA TN D-4448, 1968.

TABLE I. - MODEL GEOMETRY

Dimension		Wing spa	n	Vertical
DIMORO TON	Short	Medium	Long	tail
Area, sq ft Span, ft Mean aerodynamic chord, ft Aspect ratio Taper ratio Twist, deg Dihedral, deg NACA airfoil section Sweep of leading edge, deg Sweep of trailing edge, deg Root chord, ft Tip chord, ft	329 43.34 7.80 5.71 0.554 0 632-416 2.88 -8.57 9.77 5.41	352.8 47.94 7.62 6.52 0.507 0 0 632-416 2.88 -8.57 9.77 4.95	389.3 56 7.30 8.06 0.424 0 0 632-416 2.88 -8.57 9.77 4.14	86.9 11.22 8.26 1.45 0.389 0 0 63A013 31.33 0 11.17 4.34

TABLE II.- COORDINATES OF LEADING-EDGE SLAT AND TRAILING-EDGE TRIPLE SLOTTED FLAP, PERCENT CHORD

Lead	ding-edge sla	t <sub>1</sub>	Trailing-edge foreflap <sup>2</sup>			
Х	$\Sigma^{\Omega}$	$\mathtt{Y}_{ extsf{L}}$	Х	${\mathtt Y}_{\overline{\mathsf U}}$	$\mathtt{Y}_{\mathrm{L}}$	
0 •25 •50 •75 1.00 1.50 2.00 2.50 3 4 5 6 7 8 10 12 14 16 18 20	0.40 1.50 1.98 2.63 3.50 3.57 4.58 4.56 4.56 4.57 4.58 4.665 4.58 4.98 1.08	0.52 1.47 2.08 2.49 2.74 2.88 2.69 2.69 2.69 2.69 2.60	0 •15 •3 •5 •75 1•0 2 3 4 5 6 7 8 9 10 12•6 12•76 15 17•5 20	0 •9 1.73 2.5 3.44 4.62 7.28 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	0 -1.25 -1.62 -2.0 -2.35 -2.60 -3.14 -3.28 -3.28 -3.18 -3.09 -3.00 -2.90 -2.48 0 2.50 3.53 3.80	
Tra	iling-edge va	ne <sup>3</sup>	Traili	ng-edge aft	flap <sup>4</sup>	
0 •1 •2 •3 •4 •5 •75 1.0 1.5 2 2.5 3 3.5 4.5 5.5 6.0	0 .44 .63 .77 .88 1.00 1.18 1.33 1.52 1.62 1.62 1.62 1.62 1.62 1.77 1.46 1.28 1.06 .45 .1	0 36 50 58 65 68 6 6 3 .04 .32 .48 .53 .53 .47 .36 .20 .03	0 •25 •5 •75 1 1•5 2 2•5 3 4 5 7•5 10 12•5 15 17•5 20 21•4	0 1.12 1.58 1.92 2.16 2.5 2.77 2.95 3.08 3.21 3.25 2.85 2.85 1.85 1.85 1.33 .83	0 9 -1.24 -1.45 -1.62 -1.78 -1.83 -1.80 -1.76 -1.66 -1.57 -1.33 -1.08 85 62 37 15	

<sup>&</sup>lt;sup>1</sup>Leading-edge radius = 1.9; slope of radius line through leading edge of slat = 0.20

Leading-edge radius = 3.0

Leading-edge radius = 0.85

Leading-edge radius = 1.8

# TABLE III. - ORIFICE LOCATIONS 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 22 24 25 26

Orifice	Chordwise station, percent	Orifice	percent		Chordwise station, percent
1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 1.25 2.50 5.00 7.50 10.00 15.00 20.00 25.00 30.00 40.00 50.00 61.50	15 16 17 18 19 20 21 22 23 24 25 26 27 28	62.50 65.00 70.00 75.00 75.62 76.30 77.12 78.60 80.00 85.00 90.00 95.00	29 30 31 32 33 35 36 37 38 39 40 41 42	7.50 10.00 15.00 20.00 30.00 50.00 65.00 70.00 76.80 77.15 80.00 85.00 90.00 95.00

SPANWISE POSITION OF ORIFICE STATION, INCHES FROM FUSELAGE CENTER LINE

Valve number	1.	21	3	4	5	6	7	8	9
Wing span Short Medium Long	58.2 58.2 58.2	84.5	115.5	141.8	174.2	200.5	231.5 231.5 231.5		 310

<sup>&</sup>lt;sup>1</sup>Data from station (valve) 2 are inconsistent and omitted.

TABLE IV. - INDEX TO TABULATED DATA

Wing span	$\delta_{\mathbf{f}}$	β, deg	Leading- edge slats	T'c	α <sub>u</sub> , deg	Rotation	Table V-
Short	80 100/60 100/60 80	$\beta_{I} = \beta_{O} = 16$ $\beta_{I} = 16; \beta_{O} = 0$	On	1.0 1.0 2.5 .6 1.0	0,12,16 0,12,16 0,12,16 0,12,20 0,12,20 0,12,20		1-3 4-6 7-9 10-12 13-15 16-18
Medium	80 80 100/60 80	Propellers off $\beta_{I} = \beta_{0} = 16$ $\beta_{I} = 16; \beta_{0} = 0$	Off On	0 1.0 2.4 0 1.0 2.4 0 2.5 0 1.0 2.5 0 1.0 2.4	0,8,16 0,12,20 0,12,24 0,12,20 0,12,20 0,12,16 0,12,16 0,12,20 0,12,20 0,12,20 0,12,20 0,12,16 0,12,16 0,12,16		19-21 22-24 25-27 28-30 31-33 34-36 37-39 40-42 43-45 46-48 49-51 52-54 55-57 58-60 61-63 64-66
Long	100/60 80 80 100/60 100/60	$\beta_{I} = \beta_{O} = 16$ $\beta_{I} = 16; \beta_{O} = 0$	Off On	0 2.5 3.9 2.5 1.0 2.4 2.6 1.6 1.4	0,12,16 8,12,18 0,12,20 0,8,12 0,8,12 0,12,18 0,12,16 0,12,16 0,12,16		67-69 70-72 73-75 76-78 79-81 82-84 85-87 88-90 91-93 94-96 97-99

RUN 110 PO	INT 3	Q = 7.07	ALPHA =	0 TCP =	1.00
VALVE I	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X CP	100X CP				
01.032	02.496	02.940	03.101	04.238	00.97
1.2 -0.660		1.2 -1.193	1.2 -1.265	1.2 -1.682	1.2 -0.86
2.5 -0.920		2.5 -1.736	2.5 -1.415	2.5 -1.720	2.5 -0.82
5.0 -1.292	5.0 -1.980	5.0 -2.591	5.0 -2.164	5.0 -2.096	5.0 -0.82
7.5 -1.441		7.5 -2.862	7.5 -1.227	7.5 -2.584	7.5 -0.82
10.0 -1.515		10.0 -3.056	10.0 -2.689	10.0 -2.434	10.0 -0.90
15.0 -L.775	15.0 -2.164	15.0 -2.979	15.0 -0.815	15.0 -2.321	15.0 -1.32
20.0 -1.998		20.0 -2.940	20.0 -2.689	20.0 -2.359	20.0 -1.58
25.0 -2.036		25.0 -3.056	25.0 -1.152	25.0 -2.471	25.0 -1.73
30.0 -2.110		30.0 -3.056	30.0 -2.954	30.0 -2.659	30.0 -1.92
40.0 -2.036		40.0 -3.018		40.0 -2.735	40.0 -2.00
50.0 -2.073		50.0 0.477	50.0 -2.951	50.0 -3.035	50.0 -2.30
60.0 -2.073		60.0 -2.940	60.0 -2.951	60.0 -3.111	60.0 -2.65
61.5 -1.367		61.5 -1.814	64.5 -1.227	64.5 -1.457	61.5 -1.70
62.5 -3.820		62.5 -6.046	62-5 -5-012	62.5 -4.802	62.5 -4.36
65.0 -6.236		65.0 -8.569	65.0 -7.934	65.0 -7.320	65.0 -8.04
70.0 -4.564		70.0 -6.356	70.0 -6.323	70.0 -5.779	70.0 2.32
75.0 -2.854	75.0 -3.416	75.0 -3.988	75.0 -3.850	75.0 -3.825	75.0 -5.23
75.6 -2.296		75.6 -3.445	75.6 -3.363	75.6 -3.787	75.6 -4.78
76.3 -3.300		76.3 -4.532	76.3 -3.400	76.3 -4.652	76.3 -6.33
77.1 0.567		77.1 -3.872	77.1 1.133	77.1 -4.877	77.1 -6.37
78.6 1.682		78.6 1.874	78.6 1.620	78.6 1.738	78.6 1.11
80.0 -2.370		80.0 -3.018	80.0 -3.438	80.0 -3.148	80.0 -5.19
85.0 -1.738		85.0 -1.931	85.0 -2.351	85.0 -2.020	85.0 -2.87
90.0 -0.995		90.0 -0.494	90.0 -0.553	90.0 -0.855	90.0 -0.76
95.0 -0.772		95.0 -0.455	95.0 -0.103	95.0 -0.592	95.0 -0.10
2.5 0.455		2.5 1.602	2.5 1.920	2.5 2.641	2.5 -0.52
5.0 1.310		5.0 2.068	5.0 2.033	5.0 2.453	5.0 0.04
7.5 1.459		7.5 1.797	7.5 1.920	7.5 0.987	7.5 0.23
10.0 1.533		10.0 1.447	10.0 1.583	10.0 1.851	10.0 0.54
15.0 1.310		15.0 1.020	15.0 0.909	15.0 0.686	15.0 0.65
20.0 1.013		20.0 0.787	20.0 0.796	20.0 0.724	20.0 0.65
30.0 0.678		30.0 0.632	30.0 0.721	30.0 0.761	30.0 0.58
50.0 0.678		50.0 0.981	50.0 0.983	50.0 0.912	50.0 0.77
65.0 2.202	65.0 2.808	65.0 2.379	65.0 2.407	65.0 2.716	65.0 2.25
70.0 2.097		70.0 2.340	70.0 2.407	70.0 2.603	70.0 2.44
76.8 0.604		76.8 2.340	76.8 2.407	76.8 2.641	76.8 2.51
77.1 2.165		77.1 2.224	77.1 2.295	77.1 2.340	77.1 1.98
80.0 2.27		80.0 2.379	80.0 2.407	80.0 2.641	80.0 2.2
85.0 2.500		85.0 2.340	85.0 2.407	85.0 2.829	85.0 2.67
90.0 2.202		90.0 2.068	90.0 2.183	90.0 2.641	90.0 2.6
95.0 1.79			95.0 1.770	95.0 2.378	95.0 2.46
	COEFFICIENT	1.000	,200 Tello		
# 3.24	4.25	4.15	4.21	4.48	3.41
	4063	T0 4.7	T4 4.4	7870	20.12

			TAB	Æ V-2						
RUN/ 110	POINT	6	Q =	7.07	At	.PHA = 1	2	TCP =	1.00	
VALVE 1		ALVE 3	VALV	E 4	VAL		VALV	E 6	VAL	/E 7
100X C			100X	CP	100X	CP	100X	CP	100X	CP
01.		-2.717		-1.426	0.	-0.103	0.	-2.321	0.	-3.069
1.2 -1.		-2-385		-2.202		-1.527		-2.208		-1.58
2.5 -1.		.5 -2.569		-3.212		-2.426		-2.471		-1.66
5.0 -2.		0 -3.380		-4.182		-3.400		-2.885		-2.27
7.5 -3.		.5 -3.380		-4.415		-1.789		-3.223		-2.57
10.0 -2.		0 -2.459		-4.571		-3.813		-2.885		-2.61
15.0 -2.		0 -2.974		-4.144		-1.115		-2.847		-2.61
20.0 -2.		0 -2.974		-3.833		-3.513		-2.998		-2,76
25.0 -2.		0 -3.011		-3.911		-1.527		-3.261		-2.87
30.0 -2.		0 -3.122		-3.794		-3.588		-3.449		-2.95
		.0 -3.122		-3.483		-3.550		-3.411		-2.95
50.0 -2.		·u -2.974	50.0	0.321		-3.438		-3.674		-3, 20
60.0 -2.		0 -2.974		-3.251		-3.288		-3.599		-3,41
61.5 -1.		-5 -1.096		-1.698		-1.227		-2.020		-2.04
62.5 -3.		•5 -5•258		-5.308		-4.487		-5.403		-5.16
		0 -6.215		-7.055		~6.923		-7.809		-9,45
		·D -4.816		-4.765		-4.937		-6.456		2.29
75.0 -1.		•0 -2•238		-2.901		-2.913		-4.501		-6.37
75.6 -1.		6 -2.680		-2.940		-2.614		-4.614		-5.99
76.3 -2.		3 -3.380		-3.678		-2.614		-5.779		-7.85
		1 -3.232		-3.056	77.1	1.021		-5.817		-8.31
78.6 2.		.6 2.513		2.107	78.6	1.770	78.6	1.663	78.6	
80.0 -1.		0 -1.649		-2,474		-2.913		-4.013		-6.98
85.0 -1.		0 -1.575		-1.931		-2.276		-2.659		-4.13
90.0 -0.		.0 -0.838		-0.882		-0.890		-1.381		-1.58
		0 -0.765		-0.572		-0.590		-1.118		-0.75
		.5 3.213	2.5	2.029		0.534	2.5	3.054		1.75
		0 2.918	5.0	1.564	5.0	0.646	5.0	2.716	5.0	
	124 7.		7.5	1.175		0.684		1.137	7.5	
	827 10		10.0	0.981	10.0	0.721	10.0	2.114	10.0	
	678 15		15.0	0.709	15.0	0.684	15.0	0.724	15.0	
	678 20		20.0	0.632	20.0	0.721	20.0	0.761	20.0	0.92
	567 30		30.0	0.515	30.0	0.721	30.0	0.761	30.0	
	715 50		50.0	0.709	50.0	0.721	50.0	0.611	50.0	
	871 65		65.0	2,651	65.0	2.482	65.0	3.092	65.0	
	202 70		70.0	2.224	70.0	2.220	70.0	2.716	70.0	
	529 76		76.8	2.457	76.8	2.295	76.8	2.716	76.8	
	537 77		77.1	2.379	77.1	2,257	77.1	2.453	77.1	
	611 80		80.0	2.612	80.0	2.445	80.0	2.753	80.0	
	388 85		85.0	1.991	85.0	1.958	85.0	2.829	85.0	
	831 90		90.0	1.408	90.0	1.396	90.0	2.340	90.0	
	310 95		95.0	0.904	95.0	1.096	95.0	1.588	95.0	2.82
		FFICIENT								
= 3.37		4.56	- 4	- 25		4.15		5.07		4.88

RUN	110 PC	T THIE	<u>'</u>	Q =	6.89	Al	PHA = 1	6	TCP =	1.00	
	/E 1	VALV		VALV			/E 5	VAL	/E 6	VALV	E 7
LOOX	CP	100X	CP	100X	CP	100X	CP	100X	ĊP	100X	CP
0.			-2.107		-0.307	0.	-0.413	0.	-1.995	0.	-4.12
	-1.287		-2.522		-2.379		-1.874	1.2	-2.342	1.2	-1.93
	-2.012		-2.976	2.5	-3.614	2.5	-2.873	2.5	-2.690	2.5	-2.05
	-2.965		-3.656		-4.649		-3.796	5.0	-2.998	5.0	-3.11
	-3.194	7.5	-3.656	7.5	-4.849	7.5	-1.951	7.5	-3.384		-3.26
0.0	-3.156	10.0	-2.522	10.0	-4.968	10.0	-4.027	10.0	-2.998		-3.26
	-3.194	15.0	-3.392	15.0	-4.450	15.0	-1.143		-2.960		-3.18
0.0	-3.194		-3.392	20.0	-4.131	20.0	-3.681	20.0	-3.152		-3.34
	-3.080		-3.429	25.0	-4-131	25.0	-1.605	25.0	-3.577	25.0	-3.34
0.0	-3,004	30.0	-3.429	30.0	-3.932		-3.604		-3-615		-3.38
0.0	-2.470	40.0	-3.240	40.0	-3.494		-3.489		-3.500		-3.34
0.0	-2.241	50.0	-2.976	50.0	0.370		-3.373		-3.731		-3.38
0.0	-2-241	60.0	-2.938		-3.255		-3.219		-3.538		-3.73
	-1.211		-1.464		-1.861		-1.056		-1.378		-2.17
2.5	-2.965	62.5	-4.979		-4.849		-3.719		-4.657		-5.06
5.0	-4.568		-6.150		-6.522		-6.026		-7.550		-9.78
	-2.431		-2.674		-4.371		-4.488		-6.354	70.0	
	-1.325		-1.389		-2.379		-2.758		-3.885		-5.60
	-1-554		-2.296		-2.538		-2.297		-4.425		-5.80
	-2.050		-2.598		-3.215		-2.335		-4.850		-7.47
	0.582		-2.598		-2.737		1.010	77 5	-4.772		-7.67
	2.261		2.542		2.243	78.6	1.587	78.6			1.45
	-1.096		-1.804		-2.179		-2-681		-3.461		-6.65
	-1.020		-1.237		-1.821		-2.220		-2.265		-3.96
	-0.562		-0.746		-0.745		-0.836				
									-1.340		-1.90
	0.945	2.5	-0.746 3.335		-0.506		-0.566		-1.340		-1.39
				2.5		2.5	0.587	2.5	3.173	2.5	3.09
5.0		5.0	3.033	5.0	1.127	5.0	0.664	5.0		5.0	2.97
7.5	0.925	7.5	2.617	7.5	0.888	7.5	0.664	7.5	1.206	7.5	2.42
0.0		10.0	2.353	10.0	0.808	10.0	0.664	10.0	2.209	10.0	2.03
5.0	0.811	15.0	1.710	15.0	0.689	15.0	0.664	15.0	0.820	15.0	1.25
0.0	0.773	20.0	0.652	20.0	0.609	20.0	0.664	20.0	0.898	20.0	0.94
0.0	0.658	30.0	0.652	30.0	0.530	30.0	0.664	30.0	0.898	30.0	0.44
0.0	0.735	50.0	0.879	50.0	0.649	50.0	0.664	50.0	0.550	50.0	0.55
5.0	2.909	65.0	3.260	65.0	2.800	65.0	2.240	65.0	3.135	65.0	2.97
0.0	2.299	70.0	2.579	70.0	2.043	70.0	2.086	70.0	2.633	70.0	3, 20
6.8	0.582	76.B	2.617	76.8	2.521	76.8	2.086	76.8	2.672	76.8	3,20
7.1	2.489	77.1	2.655	77.1	2.482	77.1	2.086	77.1	2.517	77.1	2.42
0.0	2.451	80.0	2.730	80.0	2.601	80.0	2.202	80.0	2.980	80.0	3.09
5.0	1.994	85.0	1.937	85.0	1.605	85.0	1.779	85.0	2.440	85.0	3.36
	1.498		1.635	90.0	2.087	90.0	1.279	90.0	1.553	90.0	3,20
	1.078		1.181	95.0	0.769	95.0	1.048	95.0	0.936	95.0	2,81
	NORMAL										
	3.28	4	- 37	.4	-16		3, 99		5.00		.19

				TABLE 1	T-24					
RUN 7	0, POI	NT 3	Q	± 7,27	2 A	LPHA =	0	TCP =	1.00	<del></del>
VALVE	1	VALVE 3	3 V/	LVE 4	VAL	VE 5	VAL	/E 6	VALV	/E 7
100X	CP		P 100				100X	CP	100X	
0	1.042	03.	136 0.			-2.991	0.	-4.012	0.	-1.155
1.2 -	0.691	1.2 -1.		2 -1.1	35 1.2	-1.213		-1.764		-0.922
2.5 -		2.5 -1.		5 -1.		-1.569		-1.724	2.5	-0.922
5.0 -		5.0 -2		0 -2.5		-2.280		-2.119		-0.883
7.5 -		7.5 -2.		5 -2.		-1.134		-2.592		-0.883
10.0 -		10.0 -1.		0 -3.		-2.754		-2.434		-0.961
15.0 - 20.0 -		15.0 -2. 20.0 -2.		0 -3.0		-0.779		-2.395		-1.310
25.0 -		25.0 -2		0 -3-6		-2.754 -1.095		-2.395 -2.513		-1.660 -1.776
30.0 -		30.0 -2		0 -3.		-3.070		-2.671		-1.932
40.0 -		40.0 -2		0 -3.1		-3.031		-2.750		-2.009
50.0 -		50.0 -2				-3.031		-3.026		-2.242
60.0 -	2.328	60.0 -2.		0 -3-1		-3.031		-2.986		-2.514
61.5 -	1.198	61.5 -1.	104 61.	5 -1.7		-0.226		-0.502		-0.378
62.5 -		62.5 -5		5 -6.2		-1.767	62.5	-1.843		-1.504
65.0 -		65.0 -7.		0 -9.3		-5.678		-4.958	65.0	-4.767
70.0		70.0 -6.		0 -6.6		-5.955		-5.156		-1.621
75.0 -		75.0 -3		0 -4-2		-4.098		-3.696		-4.107
75.6 -		75.6 -8.		6-10-6		-1.569		-2.316		-2.359
76.3 -		76.3 -7.		3 -9.6		-1.688		-3-460		-3.641
	0.751 1.843	77.1 -5.		1 -6.4		-1.174		-3.933		-4.146
80.0 -		78.6 2. 80.0 -3.				1.710 -3.782		1.707 -3.657		1.176
85.0 -		85.0 -1.		0 -3.7		-2.952		-2.592		-3.952 -2.670
90.0 -		90.0 -0.		0 -0.3		-0.897		-1.014		-0.922
95.0 -		95.0 -0.		0 -0.5		-0.344		-0.541		-0.417
	0.245		841 2.				2.5	2.654		-0.378
	1.258		562 5.				5.0	2.496	5.0	0.166
	1.687		203 7.				7.5	0.997	7.5	0.399
10.0	1.648		964 10.	0 1.5	70 10.0	1.631	10.0	1.865	10.0	0.554
	1.453		406 15.			0.920	15.0	0.682	15.0	0.632
	1.063		888 20.				20.0	0.721	20.0	0.593
	868		848 30.				30.0	0.682	30.0	0.438
	0.985		287 50.				50.0	0-682	50.0	0.554
	2.466		921 65.				65.0	2.733	65.0	1.914
	2 <u>.349</u> 0.712		921 70.				70.0	2.259	70.0	1.992
	2.505		960 76. 881 77.				76.8	2.457 2.338	76.8 77.1	2.225 1.953
	1.843		442 80.				80.0	2.890	80.0	2.497
	2.973		960 85				85.0	2.575	85.0	2.497
	2.856		000 90				90.0	2.259	90.0	2.341
	2.388		000 95				95.0	1.865	95.0	1.992
TOTAL N		COEFFICIE								
N = 3.	49	4.59	)	4.34		4.19	4	- 27	3	3.19

m	ATOT TO	77 1

RUN	70, POI	NT 14	Q = 7.10	5 At	PHA = 1	2	TCP =	1.00	<del></del>
VALV	E 1	VALVE 3	VALVE 4	VAL	/E 5	VALV		VALV	E 7
100X	CP	100X CP	100X C	100X	CP	100X	CP	100X	CP
	-1.050	02.80	1 01.5	98 0.	-0.148	0.	-2.534	0.	-3.554
	-1.247	1.2 -2.6	0 1.2 -2.2	260 1.2	-1.701	1.2	-2.375	1.2	-1.752
2.5	-1.915	2.5 -3.00	2 2.5 -3.4	99 2.5	-2.697	2.5	-2.693	2.5	-1.752
	-2.858	5.0 -3.8	6 5.0 -4.5	574 5.0	-3.733	5.0	-3.051	5.0	-2.653
7.5	-3.055	7.5 -3.84			-1.821		-3.409		<u>-2.849</u>
10.0	-3.055	10-0 -3-40			-4.092		-3.170		-2.888
15.0	-3.094	15.0 -3.5			-1.104		-3.011		-2.849
20.0	-3.212	20.0 -3.5		243 20.0	-3.853		-3.270		-3.044
25.0	-3.055	25.0 -3.60			-1.582		-3.528		-3.123
30.0	-2.976	30.0 -3.7			-3.853		-3.687		-3.123
	-2.662	40.0 -3.6			-3.773		-3.608		-3,162
	-2.386	50.0 -3.4			-3.614		-3.926		-3.240
	-2.386	60.0 -3.4			-3.415		-3.647		-3.475
	-1.482	61.5 -1.6		<u>194 6 .5</u>	-0.227		-0.665		-0.733
	-4.037	62.5 -6.4			-1.662		-2.216		-1.987
	-6.002	65.0 -8.2			-5.207		-5.835		-6.061
	-3.841	70.0 -6.0			-5.128		-6.034		-1.948
		75.0 -3.6			-3.335		-4.483		-5.708
	-6.081	75.6 -9.1			-1.144		-3.290		-3.632
	-4.941	76.3 -7.8			-1.423		-4.483		-5.356
77.1		77.1 -6.3			-1.423		-5.000		-5.826
78.6		78.6 2.4			1.685		1.523		1.382
	-2.190	80.0 -3.7			-3.215		-4.960		-5.708
	-1.404	85.0 -1.4			-2.697		-3.568 -1.500		-4.063 -1.869
	-0.814	90.0 -0.4			-1.064 -0.745		-0.983		-1.399
	-0.146					2.5			2.126
2.5		2.5 3.5 5.0 3.1		707 5.0	0.729	5.0	2.796	5.0	2.361
5.0 7.5		7.5 2.6	64 7.5 1.	377 7.5	0.769	7.5	1.165		2.126
10.0				087 10.0		10.0			1.813
		15.0 1.7		881 15.0	0.808	15.0	0.688		1.108
15.0 20.0		20.0 0.6		716 20.0	0.808	20.0	0.767	20.0	0.834
30.0				550 30.0		30.0	0.727	30.0	
50.0				881 50.0	0.729	50.0	0.449	50.0	0.481
65.0				740 65.0	2.123	65.0	2.994	65.0	2.244
70.0				451 70.0		70.0		70.0	
76.8		76.8 3.1		864 76.8	1.924	76.8	2.358	76.8	2.831
77.1				410 77.1	1.964	77.1	2.438	77.1	2.361
80.0				699 80.0	2.243	80.0	3.114	80.0	3.223
85.0		85.0 2.9	86 85.0 2.	492 85.0	1.645	85.0	2.477	85.0	3.145
90.0				873 90.0	1.087	90.0	1.881	90.0	2.792
95.0	1.701	95.0 2.0	61 95.0 1.	253 95.0	0.769	95.0	1.205	95.0	2.244
TOTAL	NORMAL	COEFFICIE	T						
CN =	3.81	5.29	4.70		4.23	- 9	. 05		4.78

TABLE	.v-€

	VAL											
		VE I	VALVE			/E 4		VE 5		VE 6		VE 7
	100x		100X	CP	100X	CP	100X		100X		100X	
	0.	0.404	02	2.118	0.	-0.607	0.	-0.506	0.	-2.375		-4.415
		-1.365	1.2 -2	2.881	1.2	-2.549		-2.140		-2.494		-2.026
		-2.151	2.5 ~			-3.912		-3.176		-2.852		-2.183
		-3.172	5.0 -4			-5.028		-4.132		-3.210		-3.240
		-3.408	7.5 ~4			-5.193		-1.980		-3.608		-3.475
		-3.212	10.0 -	3.725		-5.317		-4.251		-3.210		-3,436
		-3.408	15.0 -			-4.739		-1.144		-3.210		-3,358
		-3,408	20.0 -3			-4-408		-3.893		-3.329		-3,436
		-3.133	25.0 -			-4-408		-1.622		-3.767		-3,475
		-3.172	30.0 -	3.886		-4.284		-3.813		-3.886		-3,475
		-2.583	40.0 -:			-3.788		-3,733		-3.687		-3.475
		-2.386	50.0 -			0.344		-3.494		-4.005		-3.593
		-2.229	60.0 -			-3.458		-3.295		-3.727		-3,828
		-1.050	61.5 -			-1.805		-0-148		-1.023		-0.733
		-3.172	62.5 -			-5.028		-1.462		-2.216		-2.065
		-4.587	65.0 -			-6.722		-4.411		-5.596		-6.531
		-2.937	_ <u>70.0 -</u>			-4.697		-4.411		-6.034		-2,065
		-1.3 <u>6</u> 5	75.0 -			-2.425		-2.897		-4.483		-6.257
		-4.784	75.6 -			-7.755		-0.905		-3.250		-4.024
		-4.076	76.3 -			-6.516		-0.945		-4.324		-5.904
		0.797	<u> 77.1 -</u>			-4.450		-1.263		-4-642		-6.570
		1.819	78.6		78.6			1.645		1.642	78.6	
		-1.993	80.0 -			-3.086		-2.538	80.0	-4.522		-7.001
		-1.050	85.0 -			-1.764		-2.219		-3.014		-4,925
		-0.618	90.0 -			-0.565		-0.785	90.0	-1.301		-1.869
	95.0					-0.193		-0.546		-0.983		-0.929
-	2,5			3.628		1.377			2.5		2.5	2.949
	5.0	1.151		3.186	5.0	1.087	5.0	0.769	5.0		5.0	
	7.5	1.033		2.785	7.5	0.922	7.5	0.769	7.5		7.5	
	10.0		10.0		10.0			0.769		2.199		1,970
	15.0	0.954		1.860	15.0	0.716	15.0	0.729	15.0		15.0	
	20.0	0.797		0.655	20.0	0.592	20.0	0.729	20.0		20.0	
	30.0	0.679		0.695	30.0		30.0		30.0		30.0	
	50.0 65.0			1.017	50.0	0.757	50.0	0.689 1.884	50.0		50.0	
	70.0	3.195 2.212		3.508	65.0	2.864	65.0		65.0		65.0	
	76.8	0.758		2.423	70.0	2.575	70.0	1.804	70.0		70.0	
	77.1	2.330		2.463	76.8							
	80.0	2.527		2.463	77.1	2.203 2.658	77.1	1.844	77.1 80.0		77.1 80.0	
	85.0	2.134			80.0		80.0 85.0	1.486	85.0		85.0	
	90.0	1.701		2.102	90.0	1.749	90.0	1.047	90.0		90.0	
		1.387	95.0			0.840		0.808		0.807		
			COEFFIC		77.0	U- 59U	93.0	V. 008	7700		7200	20,203
CN"		3.54		.03		h. 36		4.00		5.00		5.27
3.,			24		•			10 00		200		

		TWOTER A.	(		
RUN 69, PO	INT 3	9 = 5.01	ALPHA =	O TCP =	2.50
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
01.152	05.943	05.579	04.868	08-213	01.540
1.2 -0.871	1.2 -2.325	1.2 -1.505	1.2 -1.452	1.2 -2.586	1.2 -1.652
2.5 -0.871	2.5 -2.210	2.5 -2.154	2.5 -1.964	2.5 -2.359	2.5 -1.820
5.0 -1.432	5.0 -3.014	5.0 -3.512	5.0 -3.046	5.0 -3.268	5.0 0.868
7.5 -1.657	7.5 -3.187	7.5 -4.044	7.5 -1.566	7.5 -3.950	7.5 0.420
10.0 -1.713	10.0 -3.244	10.0 -4.280	10-0 -3-843	10.0 -3.495	10.0 -0.644
15.0 -2.331	15.0 -3.359	15.0 -4.280	15.0 -0.996	15.0 -3.439	15.0 -1.260
20.0 -2.612	20.0 -3.416	20.0 -4.162	20.0 -3.957	20.0 -3.495	20.0 -2.323
25.0 -2.724	25.0 -3.646	25.0 -4.339	25.0 -1.509	25.0 -3.837	25.0 -2.659
30.0 -2.949	30.0 -3.818	30.0 -4.516	30-0 -4-412	30.0 -4.121	30.0 -2.939
40.0 -2.724	40.0 -3.933	40.0 -4.339	40.0 -4.298	40.0 -4.234	40.0 -3.163
50.0 -2.893	50.0 -3.933	50.0 0.917	50.0 -4.355	50.0 -4.689	50.0 -3.611
60.0 -2.949	60.0 -4.508	60.0 -4.457	60.0 -4.469	60.0 -4.860	60.0 -4.059
61.5 -2.444	61.5 -1.751	61.5 -2.390	61.5 0.313	61.5 -1.108	61.5 -0.588
62.5 -6.656	62.5 -9.733	62.5-10.067	62.5 -2.818	62.5 -3.268	62.5 -2.379
65.0-11.038	65.0-13.294	65.0-14.910	65.0 -8.967	65.0 -8.554	65.0 -7.642
70.0 -8.004	70.0-10.767	70.0-11.544	70.0 -9.651	70.0 -8.668	70.0 -2.156
75.0 -5.196	75.0 -6.632	75.0 -7.351	75.0 -6.633	75-0 -6-337	75.0 -6.302
75.6-14.913	75.6-16.338	75.6-20.638	75.6 -2.647	75.6 -4.405	75.6 -4.003
76.3-13.172	76.3-15.017	76.3-18.807	76.3 -2.818	76.3 -6.394	76.3 -6.018
77.1 1.208	77-1-11-916	77-1-12-961	77-1 -0-939	77.1 -7.190	77.1 -6.690
78.6 3.117	78.6 4.279	78.6 3.751	78.6 3.559	78.6 3.212	78.6 1.819
80.0 -6.488	80.0 -6.517	80.0 -7.528	80.0 -6.519	80.0 -6.508	80.0 -6.410
85.0 -3.174	85.0 -2.325	85.0 -2.981	85.0 -5.153	85.0 -4.689	85.0 -4.003
90.0 -1.039	90.0 -1.234	90.0 -0.678	90.0 -1.395	90.0 -1.733	90.0 -1.372
95.0 -0.253		95.0 -0.501	95.0 -0.427	95.0 -0.994	95.0 -0.868
2.5 -0.028	2.5 5.255	2.5 1.921	2.5 2.819	2.5 5.087	2.5 -1.708
5.0 0.477		5.0 3.456	5.0 4.185	5.0 4.519	5.0 -1.484
7.5 1.208	7.5 3.647	7.5 3.456	7.5 3.559	7.5 1.734	7.5 -0.924
10.0 1.432	10.0 3.188	10.0 2.806	10.0 2.989	10.0 3.269	10.0 -0.140
15.0 1.994		15.0 1.743	15.0 1.452	15.0 0.938	15.0 0.700
20.0 1.938		20.0 1.330	20.0 1.167	20.0 0.995	20.0 0.812
30.0 1.208		30.0 1.035	30.0 0.883	30.0 0.881	30.0 0.644
50.0 1.545		50.0 2.452	50.0 2.078	50.0 1.222	50.0 1.035
65.0 4.241	65.0 5.485	65.0 4.991	65.0 4.925	65.0 5.087	65.0 2.827
70.0 3.623		70-0 4-814	70.0 4.242	70.0 4.292	70.0 3.219
76.8 1.095 77.1 4.578		76.8 5.228	76-8 4-413	76.8 4.690	76.8 3.779 77.1 3.275
		77-1 4-637	77-1 4-185	77-1 4-405	
80.0 3.342 85.0 5.364		80.0 4.106	80.0 4.698 85.0 4.299	80.0 5.485 85.0 5.031	80.0 4.394 85.0 4.338
90-0 5-196		85.0 5.228 90.0 4.991		90.0 4.405	90.0 4.226
95.0 4.128		90.0 4.991 95.0 4.342	90.0 3.445 95.0 2.591	95.0 3.666	95.0 3.499
	COEFFICIENT	776U 76374	2700 20341	726V 36000	7200 20477
CN = 5.07	7-64	7.19	6.88	7.16	4.79
	1111				

			TABLE V-	8		
RUN	69, PO	INT 14	Q = 4.98	ALPHA =	12 TCP	2.50
	VE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100x		100X CP	100X CP	100X CP	100X CP	100X CP
0.	-4.549	05.286	04.187	00.315	07.691	04.252
	-1.497	1.2 -3.783	1.2 -2.939	1.2 -2.319	1.2 -3.631	1.2 -2.394
	-2.006	2.5 -4.188	2.5 -4.484	2.5 -3.637	2.5 -3.802	2.5 -2.281
	-3.136	5.0 -5.401	5.0 -6.088	5.0 -5.126	5.0 -4.488	5.0 -2.844
	-3.645	7.5 -5.401	7.5 -6.682	7.5 -2.434	7.5 -5.003	7.5 -3.295
	-3.475	10.0 -4.361	10.0 -6.801	10.0 -5.814	10.0 -4.546	10.0 -3.351
	-3.927	15.0 -4.939	15.0 -6.266	15.0 -1.403	15.0 -4.546	15.0 -3.576
	~4.210	20.0 -4.997	20.0 -5.850	20.0 -5.527	20.0 -4.774	20.0 -4.140
	-3.927	25.0 -5.170	25.0 -5.969	25.0 -2.148	25.0 -5.289	25.0 -4.308
	-4-097	30.0 -5.286	30.0 -5.850	30.0 -5.584	30.0 -5.518	30.0 -4.534
	-3.532	40.0 -5.286	40.0 -5.375	40.0 -5.470	40.0 -5.575	40-0 -4-534
	-3.701	50.0 -5.228	50.0 0.685	50.0 -5.355	50.0 -6.204	50.0 -4.928
	-2.967	60.0 -5.228	60.0 -5.256	60-0 -5-183	60.0 -6.090	60-0 -5-435
	-7.035	61.5 -3.090	61.5 -3.236	61.5 -0.372	61.5 -1.401	61.5 -0.986
	-11.047	62-5-10-716	62.5 -9.474	62-5 -3-064	62.5 -3.974	62.5 -3.182
	-8.392	65.0-13.836	65.0-13.811	65.0 ~8.907	65.0-10.207	65.0 -9.771
	-4.888	70.0-11.005	70.0 -8.999	70.0 -8.620	70.0-10.321 75.0 -7.805	70.0 -2.619
	14.494	75.6-16.840	75-6-19-574	75.6 -2.377	75.6 -5.975	75.6 -5.942
	11.895	76.3-13.720	76.3-16.603	76.3 -2.606	76.3 -8.263	76.3 -8.420
77.1	0.819	77.1-10.774	77.1-11.910	77.1 -2.090	77.1 -8.892	77.1 -9.771
78.6		78.6 4.247	78.6 4.130	78.6 3.294	78.6 3.002	78.6 2.450
	-5.849	80.0 -6.730	80.0 -7.454	80.0 -6.501	80.0 -8.548	80-0 -9-828
	-2.910	85.0 -2.339	85.0 -4.306	85-0 -4-897	85.0 -5.689	85.0 -7.124
	-0.819	90.0 -0.953	90.0 -1.038	90.0 -1.747	90-0 -2-487	90-0 -2-563
	-0.141	95.0 -0.779	95.0 -0.385	95.0 -1.059	95.0 -1.629	95.0 -1.380
2.5	3.419	2.5 6.327	2.5 4.368	2.5 0.659	2.5 5.976	2.5 1.492
5.0	4.323	5.0 5.460	5.0 3.596	5.0 0.831	5.0 5.233	5.0 2.844
7.5	3.193	7.5 4.536	7.5 2.467	7.5 1.060	7.5 2.202	7.5 2.506
10.0	2.797	10-0 3-900	10.0 1.932	10.0 1.175	10.0 3.803	10.0 2.506
15.0	1.158	15.0 2.514	15.0 1.160	15.0 1.117	15.0 0.830	15.0 1.605
20.0	0.989	20.0 0.781	20-0 0-982	20.0 1.003	20.0 1.058	20.0 1.042
30.0	0.763	30.0 0.781	30.0 0.744	30.0 0.888	30.0 0.944	30.0 0.141
50.0	1.102	50.0 1.705	50.0 1.279	50.0 1.003	50.0 0.601	50.0 0.873
65.0	6.075	65.0 6.269	65.0 5.556	65.0 4.669	65.0 5.690	65.0 4.139
70.0	4.153	70.0 5.460	70.0 4.725	70.0 3.466	70-0 4-489	70.0 4.534
76.8	0.763	76.8 5.460	76.8 5.319	76.8 4.268	76.8 4.718	76.8 5.266
77.1	4.606	77.1 5.171	77-1 4-962	77-1 4-211	77.1 4.775	77.1 4.083
60.0	4.719	80.0 5.229	80.0 5.200	80.0 4.554	80.0 6.148	80.0-28.300
85.0	4.945	85.0 4.998	85.0 4.903	85.0 3.237	85.0 5.118	85.0 5.435
90.0	4.153	90-0 4-478	90.0 3.477	90.0 2.034	90.0 4.146	90-0 4-759
95.0	3.023	95.0 3.149	95.0 2.170	95.0 1.347	95.0 2.888	95.0 3.970
TOTAL		COEFFICIENT	7			
N =	88.5	8.31	7.43	6.76	8.45	5.91

RUN 69, POINT 23				Q =	4.94	ALPHA = 16			TCP = 2.50		
VALV		VALVE		VALV			/E 5	VAL	VE 6	VAL	VE 7
LOOX	CP	100X	CP	100x	CP	100X	CP	100X	CP	100X	CP
0.	-2.364	0	5.736	0.	-1.645	0.	-0.663	0.	-7.119	0.	-5.93
1.2	-1.680_	1.2 -	4.222	1.2	-3.741	1.2	-2.800	1.2	~3.948	1.2	-2.86
2.5	-2.193	2.5 -	4.687		-5.239		-4.128	2.5	-4.179	2.5	-2.69
5.0	-3.674	5.0 -	5.852	5.0	-6.796	5.0	-5.514	5.0	-4-698	5.0	-3.43
	-4.130	7.5 -	5.736	7.5	-7.155	7.5	-2.569	7.5	-5.216	7.5	-3.88
10.0	-3.959	10-0 -	4.920	10.0	-7.335	10.0	-6.034	10.0	-4.870	10.0	-4.00
5.0	-4.358	15.0 -	5.270	15.0	-6.796	15.0	-1.472	15.0	-4.928	15.0	-4.23
20.0	-4.415_	20.0 -	5.328	20.0	-6.197	20.0	-5.687	20.0	-5.216	20.0	-4.57
25.0	-4.244	25.0 -	5.445		-6.317		-2.222		-5.850		-4.68
	-4.244	30-0 -			-6.077		-5.687		-5.793		-4.85
40.0	-3.674_	40.0 -			-5.538		-5.514		-5.850		-4.85
50.0	-3.503	50-0 -		50.0	0.391		-5.167		-6.485		-5.25
	-3.389	60.0 -			-5.059		-4.936		-6-139		-5.70
61.5	<u>~2.478</u>	61.5 -			-3.262		0.145		-1.873		-1.16
	-6.465	62.5 -			-8.293		-2.107		-3.718		-3.37
65.0	-9.656	65.0-1	1.618	65.0-	10.808		-7.246		-9.770		-10,13
	-7.035	70.0 -			-7.994		-7.131		-10.404		-2.86
	-3.845	75.0 -			-4.819		-4.936		-7.983		-9.79
75.6-	11.820	75.6-1			14.162		-1.299		-5.966		-6.38
	10.225	76.3 -			11.587		-1.356		-7.868		-9.22
	0.826	77.1 -			-8.353		-2.165		-8.617		-10-47
78.6	3.447		3.990	78.6	3.685	78.6	3.552	78.6			2.58
	-4.415	80.0 -			-5.358		-4.474		-8.387		-10-02
	-1.851	85.0 -			-3.682		-3.377		-5.447		-7.52
	-0.598	90.0 -			-1.585		-1.241		-2.161		-2.81
	-0.199	95.0 -			-0.507		-0.779		-1.354		-1.39
2.5	2.421		6.670	2.5	2.906	2.5	0.607	2.5	6-198	2.5	2.30
5.0	3.048		5.679	5.0	2.008	5.0	0.491	5.0	5.391	5.0	3.43
7.5	2.364		4.689	7.5	1.469	7.5	0.665	7.5 10.0	2-393	7.5	3.15
10.0	1.567		4.107	10.0	1.289	10.0	0.896	10.0	3.949	15.0	1.73
15.0	1.054		2.651	15.0	0.930	15.0	0.838	15.0	1.125	20.0	1.05
20.0	0.655		0.729	20.0	0.631	20.0	0.896	20.0 30.0	1.067	30.0	0.14
30.0	0.712		0.787	30.0	0.690	30.0	1.011	50.0	0.606	50.0	0.14
50.0	0.940		1.486	50.0	1.050	50.0 65.0	4.072	65.0	6.082	65.0	4.23
65.0	5.270		4.340	65.0 70.0	3.745	70.0	3.205	70.0	4.180	70.0	4.74
70.0	4-130		4.748	76.8	4.583	76.8	4.187	76.8	4.411	76.8	5.53
76.8	0.712		4.631	77.1	4.523	77.1	4.187	77.1	4.872	77.1	4.45
77.1	4.814		4.573	80.0	4.763	80.0	4.649	80.0		80.0	
80.0	4.643		3.932	85.0	3.805	85.0	2.917	85.0			-39.60
85.0			3.233	90.0	2.367	90.0	1.820	90.0		90.0	
90.0	3.333		2.534	95.0	1.289	95.0		95.0		95.0	
	2.421	COEFFIC		7260	40207	-340	A-104	,,,,,	40104	,,,,,	700
	.29		78		. 82		6.26		8.44		5.51
- 3	1647			•			4050		40.4		

				T	ABLE V-10	)					
RUN	77, POI	NT 3		Q =	5.45	AŁ	PHA =	0	TCP =	0.60	
	VE 1	VALVE		VALV		VALV			/E 6		Æ 7
100X		100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
0.	-0.382		6.101		-3.169		-0.485	0.			-0.68
	-0.484	1.2 -			-1.337		-0.739		-1.306		-0.68
	-0.534	2.5 -			-1.546		-0.993		-1.306		-0.73
	-0.585	5.0 -			-2.069		-1.247		-1.460		-0.83
7.5	-0,990	7.5 -			-2.541		-0.790		-1.664		-0.88
10.0	-1.192	10.0 -			-2.907		-1.095		-1.613		-0.98
	-1.445	15.0 -	2.498		-2.802	15.0	-0.587		-1.613		-1.03
20.0	-1.951	20.0 -	2.498	20.0	-2.802	20.0	-1.399	20. D	-1.562	20.0	-1.24
25.0	-2.002	25.0 -2	2.653	25.0	-2.959	25.0	-0.638	25.0	-1.664	25.0	-1.24
30.0	-2.154	30.0 -	2.756	30.0	-2.802	30.0	-1.552	30.0	-1.766	30.0	-1.29
40.0	-2.053	40.0 -	2.859	40.0	-2.750	40.0	-1.602	40.0	-1.715	40.0	-1.34
50.0	-2.103	50.0 -	2.859	50.0	0.495	50.0	-1.653	50.0	-1,868	50.0	-1,39
60.0	-2.154	60.0 -	3.013	60.0	-2.541	60.0	-1.653	60.0	-1.920	60.0	-1.54
61.5	-1.395	61.5 -	1-160	61.5	-1.127	62.5	-0.739	61.5	-0.795	61.5	-1.08
	-5.039				-5.262	62.5	-2.466		-2.942		-2.30
	-8.278	65.0 -			-7.565		-4.141		-4.578		-4.32
	-6.152	70.0 -			-5.629		-3.938		-3.811		1.38
	-3.642	75.0 -			-3.378		-2.923		-2.635		-3.00
	-2.609	75.6 -			-3.535		-1.704		-2.482		-2,60
	-3.976	76.3 -			-5.210		-1.856		-3.044		-3.56
77.1		77.1 -			-4.529	77.1	0.530		-3.249		-3.61
			3.677	78.6	3.217	78.6	0.632	78.6			0.32
78.6					-3.273		-3.024		-2.738		-3.16
	-2.913	80.0 -			-2.750		-2.364		-1.664		-1.84
	-1.749	85.0 -	0.178				-1.044		-0.744		-0.88
	-0.534				-0.552		-0.688		-0.488		-0.88
	-0.332		0.795		-0.133			2.5	1.403		-0.73
	-0.079		4.295	2.5	0.129		-0.231				-0.46
5.0			3.626	5.0	1.123		-0.079	5.0	0.483		-0.23
7.5	0.731		2.905	7.5	1.804	7.5	0.023	7.5	0.892	20.0	
10.0			2.493	10.0	2.065	10.0	0.073	10.0		15.0	
15.0	2.389		1.567	15.0	1.228	15.0	0.124	15.0		20.0	0.17
20.0			0.898	20.0	0.757	20.0	0.276	20.0		30.0	0.12
30.0			0.847	30.0	0.600	30.0	0.327	30.0			
50.0			1.670	50.0	1.594	50.0	0.327	50.0	0.534	50.0	0.12
65.0			4.398	65.0	3.950	65.0	0.987	65.0		65.0	0.27
70.0	3.160		4.398	70.0	3.950	70.0	0.886	70.0		70.0	0.93
76.			4.449	76.8	3.897	76.8	0.886	76.8	0.892	76.8	1.03
77.1			4.398	77.1	3.688	77.1	0.886	77-1	0.841	77.1	0.98
80.0			4.398	80.0	4.054	80.0	0,937	80.0		80.0	0.98
85.0			4.449	85.0	3.740	85.0	0.835	85.0		85.0	
90.0			4.398	90.0	3.531	90.0	0.784	90.0		90.0	0.88
	1 2 212	95.0	4.243	95.0	2.955	95.0	0.784	95.0	0.585	95.0	0.73
95.0											
	NORMAL	COEFFI	CIENT 59		. 63		. 18		2.58		1.69

RUN	77, PO	INT 6	Q = 5.42	ALPHA = 1	2 TCP =	0.60
_VAL		VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X	CP	100X CP	100X CP	100X CP	100X CP	100X CP
0.	-4.507	04.841	04.397	00.947	01.056	01.55
1.2	-1.860		1.2 -1.712	1.2 -1.713	1.2 -2.033	1.2 -1.45
2.5	-2.013	2.5 -3.392	2.5 -2.870	2.5 -2.479	2.5 -2.496	2.5 -1.65
5.0	-3.031	5.0 -4.582	5.0 -4.239	5.0 -3.041	5.0 -2.753	5.0 -2.41
7.5	-3.387	7.5 -4.582	7.5 -4.607	7.5 -1.509	7.5 -2.958	7.5 -2.56
10.0	-3.489		10.0 -5.028	10.0 -2.734	10.0 -2.753	10.0 -2.56
15.0	-3.591	15.0 -4.271	15.0 -4.449	15.0 -0.998	15.0 -2.650	15.0 -2.51
	-3.845	20.0 -4.220	20.0 -4.133	20.0 -2.734	20.0 -2.650	20.0 -2.67
	-3.845	25.0 -4.220	25.0 -4.344	25.0 -1.203	25.0 -2.701	25.0 -2.67
	-3.743	30.0 -4.220	30-0 -4-028	30.0 -2.786	30.0 -2.701	30.0 -2.67
	-3.387	40.0 -4.220	40.0 -3.607	40.0 -2.786	40.0 -2.598	40.0 -2.61
	-3.438	50.0 -4.064	50.0 0.445	50.0 -2.786	50.0 -2.804	50.0 -2.61
	-3.387	60.0 -4.064	60.0 -3.397	60.0 -2.786	60.0 -2.907	60.0 -2.72
	-3.184	61.5 -1.632	61.5 -1.976	61.5 -1.305	61.5 -1.108	61.5 -1.85
	-6.288	62.5 -7.480	62.5 -7.133	62.5 -3.858	62.5 -3.935	62.5 -4.04
	-9.901	65.0-10.378	65.0-10.133	65.0 -6.309	65.0 -6.351	65.0 -7.34
	-7.255	70.0 -8.670	70.0 -8.133	70.0 -5.849	70.0 -5.477	70.0 1.39
	-4.507	75.0 -5.306	75.0 -5.396	75.0 -4.266	75.0 -3.883	75.0 -4.75
	-3.896	75.6 -4.530	75.6 -5.449	75.6 -3.654	75.6 -3.781	75.6 -3.94
	-5.372	76.3 -6.393	76.3 -7.660	76.3 -3.705		
77.1		77.1 -7.376	77.1 -6.765		76.3 -4.500	76.3 -4.95
78.6			78.6 3.340		77.1 -4.603 78.6 0.229	77.1 -5.00 78.6 -0.13
	3.025	78.6 3.905 80.0 -4.634	80.0 -5.396	78.6 0.533		
	-3.947 -2.675			80.0 -3.909 85.0 -3.245	80.0 -3.318	80-0 -4-29
	-1.402	85.0 -3.651 90.0 -0.649	85.0 -4.186 90.0 -1.291	90.0 -1.560	85.0 -2.187 90.0 -1.210	85.0 -2.31 90.0 -1.24
	-0.893	95.0 -0.132	95.0 -0.344	95.0 -1.152	95.0 -0.902	95.0 -0.74
	3.229	2.5 5.043	2.5 3.340		2.5 0.794	2.5 1.39
5.0		5.0 4.319				
	3.789			5.0 0.533	5.0 3.051	5.0 1.34
7.5	2.822	7.5 3.594 10.0 3.180	7.5 2.340 10.0 1.761	7.5 0.585 10.0 0.636	7.5 0.434 10.0 0.948	7.5 1.24
15.0		15.0 1.990	10.0 1.761 15.0 1.182			10.0 0.98
20.0	1.041	20.0 0.541		15.0 0.636	15.0 0.434	15.0 0.73
	0.684		20.0 0.814	20.0 0.636	20.0 0.537	20.0 0.68
30.0 50.0	0.532	30.0 0.541	30.0 0.656	30.0 0.636	30.0 0.743	30.0 0.53
65.0		50.0 1.628 65.0 5.198	50.0 1.340	50.0 0.585	50.0 0.589	50.0 0.53
70.0	4.298		65.0 4.340	65.0 0.891	65.0 0.948	65.0 1.24
76.8	3.585	70.0 4.940	70.0 4.024	70.0 0.891	70.0 0.897	70.0 0.83
77.1	0.532	76.8 4.940	76.8 4.235	76.8 0.891	76.8 0.794	76.8 0.58
	3.840	77-1 4-888	77.1 3.919	77-1 0-891	77.1 0.640	77.1 0.53
80.0	4.094	80.0 4.991	80.0 4.498	80.0 1.146	80.0 0.794	80.0 0.83
85.0	3.433	85.0 4.991	85.0 3.814	85.0 1.146	85.0 0.897	85.0 0.73
90-0	2.720	90.0 4.577	90.0 2.972	90.0 0.942	90.0 0.743	90.0 0.58
95.0	1.957	95.0 3.491 COEFFICIENT	95.0 2.235	95.0 0.789	95.0 0.589	95.0 0.53
	NUKHAL	7.16	6.02	3.50	3.60	3.28

					TABLE V-	L2					
RUN	77, PO	INT 8		Q =	5.57	A	LPHA = 2	:0	TCP =	0.60	_
VALV	E.1	VAL	/E 3	VAL	/E 4	VAL	/E_5	VAL	VE 6	VAL	/E.7
100X	CP	100X	CP	100X	CP	100X		100X		100X	CP
0	-0.325	o.	-4.459	0.	-2.538	0.	-1.419	0.	-1.979	0.	0.120
1.2 .	1.415		-3.452	1.2	-2.845	1.2	-2.662	1.2	-2.879		-1.21
2.5	-2.504	2.5	-4.006	2.5	-4.125	2.5	-3.705	2.5	-3.279		-1.907
	-3.346	5.0	-4.963	5.0	-5.354	5.0	-3.804	5.0	-3.179	5.0	-3.094
	-3.891		-4.812	7.5	-5.508	7.5	-1.767		-3.279		-3.192
10.0	-3.643	10.0	-4.459	10.0	-5.713	10.0	-3.059	10.0	-3.129	10.0	-3,094
15.0	-3.891	15.0	-4.409	15.0	-4.996	15.0	-0.923	15.0	-3.379	15.0	-2.846
20.0 -	-3.891		-4.258	20.0	-4.484	20.0	-2.960		-2.929		-3.044
25.0	-3.544	25.0	-4.258	25.0	-4.433	25.0	-1.171		-2.929		-2.99
30.0	-3.594	30.0	-4.258	30.0	-4.228	30.0	-2.860	30.0	-3.029	30.0	-2.896
40.0		40.0	-4.157	40.0	-3.716	40.0	-2.811	40.0	-2.979		-2,797
50.0	-2.851	50.0	-3.603	50.0			-2.811		-3.029		-2.797
60.0	-2.851	60.0	-3.352	60.0	-3.306		-2.761		-2.729		-2.896
61.5	-1.960	61.5	-2.294	61.5	-2.333		-1.072		-0.929		-1.561
62.5 -	-4.931	62.5	-6.675	62.5	-6.481		-3.357		-3.780		-3.68
65.0	-7.060	65.0	-8.085		-9.298		-5.146		-5.830		-6,604
70.0	-4.287	70.0	-4.510	70.0	-6.327		-4.500		-5.130		1.400
75.0	-2.455	75.0	-2.798		-4.074		-3.158		-3.579		-4.18
75-6	-2.702		-3.754		-4.176		-2.711		-3.229		-3.291
	-3.247		-3.704		-5.354		-2.761		-3.930		-4.033
77.1			-4-107		-4-637		0.618		-4.130		-4-132
	3.389		3.950	78.6			0.568		0.372		-0.127
	-1.910		-3.150		-3.562		-3.059		-3.029		-3.489
	-1.811		-2.294		-2.947		-2.612		-1.829		-2.154
	-0.424		-0.985		-0.745		-1.320		-0.979		-1.165
	0.523		-1.086		-0.387		-0.873		-0.778		-0.819
	2.597	2.5	5.309	2.5	3.045	2.5	0.469	2.5		2.5	1.208
5.0	2.200	5.0	4.604	5.0	2.379	5.0	0.618	5.0	0.872	5.0	1.257
7.5	1.606	7.5	3.849	7.5	1.559	7.5	0.667	7.5	0.472	7.5	1.208
10.0	1.408	10.0	3.396	10.0	1.355	10.0	0.717	10.0	0.972	10.0	1.109
15.0	1.061	15.0	2.187	15.0	0.842	15.0	0.717	15.0	0.472	15.0	1.010
20.0	0.814	20.0	0.526	20.0	0.689	20.0	0.717	20.0	0.572	20.0	0.911
30.0	0.913	30.0	0.626	30.0	0.689	30.0	0.717	30.0	0.822	30.0	0.713
50.0	0.913	50.0	1.331	50.0	0.894	50.0	0.717	50.0	0.722	50.0	0.565
65.0	4.577	65.0	5.259	65.0	4.581	65.0	1.264	65.0	0.972	65.0	0.812
70.0	3.636	70.0	3.899	70.0	3.249	70.0	1.164	70.0	0.922	70.0	0.713
76.8	0.715	76.8	4.302	76.8	4.018	76.8	1.065	76.8	0.872	76.8	0.615
77.1	4.181	77.1	4.353	77.1	4.120	77.1	1.065	77.1	0.672	77.1	0.466
80.0	4.033	80.0	4.504	80.0	4.274	80.0	0.966	80.0	0.972	80.0	0.664
85.0	3.141	85.0	3.094	85.0	2.686	85.0	1.115	85.0	0.872	85.0	0.664
90.0	2.448	90.0	2.288	90.0	1.764	90.0	1.115	90.0	0.722	90.0	0.516
	1.457	95.0	1.734	95.0	1.098	95.0	0.966	95.0	0.572	95.0	0.516
		COEFFI		,,,,,	45070	,,,,,	US 700	7300	00312	7280	0.070
	48		.09	5	i • 43	3	3.46	3	3.74	3	. 36

TABLE V-	.13
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						-					
RUN	76, POI	NT 3		Q =	3.53	ÀΙ	PHA =	0	TCP =	1.00	
VALV	/E 1	VALV	E_3	VAL	/E 4	VAL	/E 5	VAL	/E 6	VAL	/E_7
100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
0.	-0.645	0.	-6,703	0.	-4.297	0.	-0.341	0.	-2.905	0.	-0.413
1.2	-0.722	1.2	-1.756	1.2	-1.451	1.2	-0.653	1.2	-1.272	1.2	-0.566
2.5	-0.799	2.5	-1.599	2.5	-1.688	2.5	-0.966	2.5	-1.272	2.5	-0.643
5.0	-0.954	5.0	-1.991	5.0	-2.163	5.0	-1.278	5.0	-1.506	5.0	-0.720
	-1.185		-2,227	7.5	-2.637		-0.966		-1.739		-0,797
10.0	-1.416	10.0	-2,306	10.0	-3,190	10.0	-1.200	10.0	-1.739		-0.874
	-1.648		-2.463		-3.032		-0.733		-1.661		-1.028
	-2.342		-2.541		-2.874		-1.513		-1.661		-1.181
	-2.496		-2.620		-3.349		-0.731		-1.817		-1.335
	-2.573		-2.855		-3.111		-1.669		-1.817		-1.335
	-2.496		-2,934		-2.874		-3.747		-1.894		-1.335
	-2.728		-2.934	50.0			-1.825		-1.972		-1.412
	-2.650		-3.169		-2.716		-1.825		-2.128		-1.566
	-2.650		-1.285		-1.372		-0.966		-1.117		-1.181
	-6.198		-8.117		-6.274		-2.685		-3.216		-2.488
	-9.823		10.159		-8.803		-4.795		-5.160 -4.149		-5.025
	-7.278		-8.745		-6.906 -4.218		-4.560		-2.983		1.202 -3,488
	-4.501		-4.583				-3.545				
	-3.730		-4.190		-4.455		-2.216		-2.905		-3.257
	-5.427		-5.839		-6.432		-2.529		-3.527		-3.949 -4.179
77.1			-6.625		-5.483	77.1			-3.605		
78.6	2.517		4.605	78.6		78.6		78.6			-4.026
	-4.039		-4.112		-4-455		-3.310		-2.983 -1.661		-2.334
	-2.342		-3.248 0.364		-3,665 -0,661		-2.919		-0.806		-1,104
	-0.954	90.0 95.0	0.836	95.0	0.051		-0.888		-0.650		-0.797
	-0.799 -0.414	2.5	5.312		-0.265		-0.028	2.5	1.838		-0.720
	-0.105	5.0	4,605	5.0	1.711	5.0	0.050	5.0	1,605		-0,643
7.5	0.357	7.5	3,663	7.5	2.185	7.5	0.206	7.5	0.438		-0.336
10.0	0.589	10.0	3,113	10.0	2.264	10.0	0.284	10.0	1.060		-0.259
15.0	0.743	15.0	1,935	15.0	1.632	15.0	0.284	15.0			-0.028
20.0	0.820	20.0	1,150	20.0	0.920	20.0	0.284	20.0			-0.028
30.0		30.0	0,993	30.0		30.0	0.284	30.0	0.516		-0.028
50.0	1.283	50.0	1.857	50.0	1.869	50.0	0.284	50.0		50.0	
65.0	2.594	65.0	5,390	65.0	4.636	65.0	0.675	65.0		65.0	0.433
70.0	2.671	70.0	5.390	70.0	4.557	70.0	0.675	70.0	1.216	70.0	0.894
76.8	0.897	76.8	5.390	76.8	4.794	76.8	0.675	76.8	0.983	76.8	1.356
77.1	3.211	77.1	5.390	77.1	4.478	77.1	0.675	77.1	1.060	77.01	1.202
80.0	3.365	80.0	5.390	80.0		80.0	0.675	80.0		80.0	
85.0	4.214	85.0	5.469	85.0		85.0	0.675	85.0		85.0	1.509
90.0	4.291	90.0	5.390	90.0		90.0		90.0		90.0	
95.0	3.520	95.0	5.233	95.0	3,292	95.0	0.597	95.0	0.672	95.0	1.279
	NORMAL										
2N ≠ -	4.26	6	44		5.40		2.34		2.85		1.87

TABLE	V-14

		11,000 , 1	•		
RUN 76, POI	INT 6	Q = 3.53	ALPHA = 1	2 TCP =	1.00
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
03.576	05.054	05.720	00.966	00.884	01.489
1.2 -1.802	1.2 -3.405	1.2 -2.084	1.2 -1.825	1.2 -2.205	1.2 -1.335
2.5 -2.111	2.5 -3.484	2.5 -3.269	2.5 -2.529	2.5 -2.516	2.5 -1.489
5.0 -2.650	5.0 -4.426	5.0 -4.851	5.0 -3.076	5.0 -2.750	5.0 -2.334
7.5 -2.882	7.5 -4.504	7.5 -4.930	7.5 -1.904	7.5 -3.061	7.5 -2.488
10.0 -3.036	10-0 -4-504	10.0 -5.404	10.0 -2.685	10.0 -2.827	10.0 -2.488
15.0 -3.653	15.0 -4.504	15.0 -4.930	15.0 -1.200	15.0 -2.750	15.0 -2.565
20.0 -3.884	20-0 -4-426	20.0 -4.455	20,0 -2,685	20.0 -2.905	20.0 -2.642
25.0 -3.499	25.0 -4.426	25.0 -4.534	25.0 -1.278	25.0 -2.905	25.0 -2.642
30.0 -3.807	30-0 -4-504	30.0 -4.455	30-0 -2-841	30.0 -2.905	30.0 -2.719
40.0 -3.499	40.0 -4.504	40.0 -4.139	40.0 -2.841	40.0 -2.905	40.0 -2.642
50.0 -3.345	50.0 -4.426	50.0 0.367 60.0 -3.744	50.0 -2.841	50.0 -3.138	50.0 -2.719 60.0 -2.873
60.0 -3.576	60.0 -4.426	61.5 -2.242	60.0 -2.841	60.0 -3.061 61.5 -1.272	61.5 -2.258
61.5 -3.267 62.5 -6.738	61.5 -1.677 62.5 -8.274	62.5 -7.697	61.5 -1.513 62.5 -4.248	62.5 -4.383	62.5 -4.410
65.0-10.671	65.0-11.258	65.0-11.412	65.0 -6.827	65.0 -6.871	65.0 -8.484
70.0 -7.972	70.0-10.159	70.0 -8.961	70.0 -6.436	70.0 -6.016	70.0 1.202
75.0 -4.656	75.0 -5.997	75.0 -6.036	75.0 -4.717	75.0 -4.383	75.0 -5.717
75.6 -4.116	75.6 -5.368	75.6 -6.274	75.6 -2.763	75.6 -4.072	75.6 -4.487
76.3 -6.198	76.3 -7.567	76.3 -8.803	76.3 -3.154	76.3 -4.927	76.3 -5.563
77.1 0.666	77.1 -8.588	77.1 -7.697	77-1 0.050	77.1 -5.393	77.1 -5.640
78.6 3.828	78.6 4.998	78.6 4.083	78.6 0.284	78.6 0.127	78.6 0.202
80.0 -4.039	80.0 -5.211	80.0 -6.115	80,0 -4,482	80.0 -4.072	80.0 -5.025
85.0 -2.805	85.0 -4.347	85.0 -4.692	85.0 -3.779	85.0 -2.594	85.0 -2.719
90.0 -2.033	90.0 -0.499	90.0 -1.372	90.0 -1.982	90.0 -1.350	90.0 -1.412
95.0 -1.494	95.0 -0.107	95.0 -0.582	95.0 -1.435	95.0 -0.884	95.0 -1.335
2.5 1.977	2.5 6.254	2.5 3.608	2.5 0.284	2.5 0.983	2,5 1,356
5.0 3.674	5.0 5.312	5.0 3.766	5.0 0.363	5.0 l.060	5.0 1.356
7.5 3.674		7.5 2.581	7.5 0.441	7.5 0.361	7.5 1.279
10.0 2.748	10.0 3.898	10.0 2.185	10.0 0.441	10.0 0.983	10.0 1.202
15.0 1.591	15.0 2.485	15.0 1.237	15.0 0.441	15.0 0.283	15.0 0.971
20.0 0.897	20.0 0.757	20.0 0.683	20.0 0.441	20.0 0.438	20.0 0.741 30.0 0.510
30.0 0.820	30.0 0.757	30.0 0.446	30.0 0.441	30.0 0.672 50.0 0.516	30.0 0.510 50.0 0.510
50.0 1.129	50.0 1.778	50.0 1.316	50.0 0.363	50.0 0.516 65.0 0.749	65.0 1.971
65.0 5.448 70.0 4.368		65.0 5.031 70.0 4.715	65.0 0.831 70.0 0.910	70.0 0.749	70.0 1.509
70.0 4.368 76.8 0.666		76.8 5.031	76.8 0.831	76.8 0.672	76.8 1.125
77.1 4.522		77.1 4.636	77.1 0.910	77.1 0.516	77-1 1-048
80.0 4.908		80.0 5.427	80.0 0.988	80.0 0.749	80.0 1.356
85.0 4.368		85.0 4.478	85.0 1.144	85.0 0.749	85.0 1.048
90.0 3.211		90.0 3.371	90.0 0.988	90.0 0.672	90.0 0.817
95.0 2.671		95.0 2.502	95.0 0.910	95.0 0.516	95.0 0.741
TOTAL NORMAL		7-1			
CN = 5.70	8.20	6.69	3.59	3.79	3.68

RUN 76, PO	INT 8	Q = 3.55	ALPHA = 2	0 TCP =	1.00
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X CP	100X CP	100X CP	100X CP	TOOX Cb	100X CP
03.096	06.041	03.487	01.815	01.033	00.16
1-2-1-725	1.2 -4.167	1.2 -3.015	1.2 -2.981	1.2 -2.038	1.2 -1.29
2.5 -2.559	2.5 -4.401	2.5 -4.745	2.5 -4.069	2.5 -2.425	2.5 -1.93
5.0 -3.556	5.0 -5.494	5.0 -5.845	5.0 -4.146	5.0 -2.502	5.0 -3.10
7.5 -4.169		7.5 -6.160	7.5 -2.126	7.5 -2.734	7.5 -3.2
10.0 -3.939		10.0 -6.317	10.0 -3.059	10.0 -2.657	10.0 -3.3
15.0 -4.093	15.0 -5.182	15.0 -5.531	15.0 -1.349	15.0 -3.121	15.0 -3.0
20.0 -4.399		20.0 -5.138	20.0 -3.136	20-0 -2-580	20.0 -3.3
25.0 -4.093	25.0 -5.104	25.0 -5.059	25.0 -1.427	25,0 -2,580	25.0 -3.3
30.0 -3.939	30.0 -5.104	30.0 -4.588	30.0 -2.981	30,0 -2,580	30.0 -3.10
40.0 -3.633	40.0 -4.870	40.0 -4.195	40.0 -2.981	40.0 -2.580	40.0 -3.0
50.0 -3.172	50.0 -4.167	50.0 0.365	50.0 -2.981	50.0 -2.580	50.0 -3.0
60 <sub>0</sub> 0 -3 <sub>0</sub> 326	60.0 -4.089	60.0 -3.644	60.0 -2.981	60.0 -2.425	60.0 -3.00
61.5 -3.019		61.5 -2.780	61.5 -1.660	61-5 -0-260	61.5 -2.0
62.5 -5.320		62.5 -6.946	62.5 -3.680	62.5 -3.353	62.5 -4.3
65.0 -8.387		65.0 -9.540	65.0 -5.623	65.0 -5.672	65.0 -7.4
<u>70.0 -5.396</u>		70.0 -7.575	70.0 -5.312	70.0 -4.899	70.0 1.1
75.0 -2.866	75.0 -2.293	75.0 -4.509	75.0 -3.913	75.0 -3.276	75.0 -4.31
75.6 -2.866	75.6 -3.074	75.6 -4.745	75.6 -2.437	75.6 -2.889	75.6 -3.62
76.3 -3.939	76.3 -5.416	76.3 -6.317	76.3 -2.748	76.3 -3.662	76.3 -4.46
77 <u>.1 0.739</u>	77.1 -5.338	77.1 -5.374	77.1 0.050	77.1 -3.894	77.1 -4.61
78.6 4.266	78.6 5.126	78.6 4.453	78.6 0.283	78.6 1.054	78.6 -0.02
BO.O -2.942	80.0 -3.386	80.0 -4.430	80.0 -3.447	80.0 -2.734	80.0 -3.92
85.0 -1.945	85.0 -2.683	85.0 -3.566	85.0 -3.214	85.0 -1.420	85.0 -2.6
90.0 -1.255		90.0 -1.050	90.0 -1.815	90.0 -0.569	90.0 -1.40
95.0 -0.642	95.0 -1.278	95.0 -0.736	95.0 -1.349	95.0 -0.260	95.0 -1.09
2.5 3.883	2,5 6,609	2,5 3,745	2.5 0.205	2.5 i.596	2.5 1.7
5.0 3.346	5.0 5.594	5.0 2.723	5.0 0.283	5.0 1.673	5.0 1.5
7.5 2.503	7.5 4.657	7.5 1.701	7.5 0.360	7.5 1.209	7.5 1.34
10.0 1.8i2	10.0 4.032	10.0 1.465	10.0 0.438	10.0 1.673	10.0 1.19
15.0 0.892	15.0 2.471	15.0 0.837	15.0 0.516	15.0 1.054	15.0 1.04
20.0 0.662	20.0 0.518	20.0 0.522	20.0 0.516	20.0 1.209	20.0 0.88
30.0 0.815	30.0 0.518	30.0 0.601	30.0 0.516	30.0 1.518	30.0 0.60
50.0 0.892	50.0 1.299	50.0 0.994	50.0 0.438	50.0 1.441	50.0 0.60
55.0 5.263	65.0 6.375	65.0 5.396	65.0 1.526	65,0 1.750	65.0 1.2
70.0 4.036	70.0 4.813	70.0 3.981	70.0 1.293	70.0 1.750	70.0 1.04
76.8 0.585		76.8 4.924	76.8 1.137	76.8 1.596	76.8 0.73
77.1 4.803	77.1 5.282	77-1 5-003	77.1 1.060	77.1 1.364	77.1 0.58
80.0 4.496	80.0 5.516	80.0 5.239	80.0 0.982	80.0 1.750	80.0 0.81
85.0 3.576	85.0 3.954	85.0 3.116	85.0 0.904	85.0 1.673	85.0 0.73
90.0 2.886	90.0 2.783	90.0 2.173	90.0 1.060	90.0 1.518	90.0 0.66
95.0 1.736	95.0 2.158	95.0 1.308	95.0 0.827	95.0 1.286	95.0 0.58
	COEFFICIENT				
≖ 5 <sub>0</sub> 09	7.06	6.16	3,66	4.09	3.75

		TABLE V-1	6		
RUN 75, PO	INT 3	Q = 3,55	ALPHA =	O TCP =	1.60
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7
100X CP	100X CP	100X CP	100X CP	LOOX CP	LOOX CP
00.897	010.723	05.305	00.504	02.662	00.499
1.2 -0.660		1.2 -1.490	1.2 -0.742	1.2 -1.704	1.2 -0.735
2.5 -0.818		2.5 -1.895	2.5 -1.059	2.5 -1.465	2.5 -0.813
5.0 -0.818		5.0 -2.870	5.0 -1.534	5.0 -1.864	5.0 -0.891
7.5 -0.739	7.5 -3.221	7.5 -3.438	7.5 -1.138	7.5 -2.263	7.5 -1.048
10.0 -0.976	10.0 -2.742	10.0 -3.925	10.0 -1.455	10.0 -2.103	10.0 -1.205
15.0 -2.003	15.0 -3.380	15.0 -3.925	15.0 -0.900	15.0 -1.944	15.0 -1.362
20.0 -2.556	20.0 -3.380	20.0 -3.600	20.0 -1.772	20-0 -1-944	20.0 -1.519
25.0 -2.556	25.0 -3.620	25.0 -3.763	25.0 -0.900	25.0 -2.023	25.0 -1.598
30.0 -3.109	30.0 -3.859	30.0 -3.844	30.0 -1.931	30.0 -2.103	30.0 -1.676
40.0 -3.030		40.0 -3.682	40.0 -2.089	40.0 -2.183	40.0 -1.676
50.0 -3.030		50.0 0.946	50.0 -2.089	50.0 -2.422	50.0 -1.755
60.0 -3.188	60.0 -4.338	60.0 -3.113	60.0 -2.169	60.0 -2.582	60.0 -1.990
61.5 -2.714		61.5 -1.490	61.5 -1.138	61.5 -1.385	61.5 -1.519
62.5 -7.771		62.5 -7.416	62.5 -3.595	62,5 -3,939	62.5 -3.246
65-0-13-222		65.0-12.044	65.0 -5.974	65.0 -6.413	65.0 -6.620
70.0 -9.904		70.0 -9.040	70.0 -5.815	70.0 -5.375	70.0 -0.735
75.0 -6.191		75.0 -5.792	75.0 -4.388	75.0 -3.939	75.0 -4.737
75.6 -5.006		75.6 -6.361	75.6 -2.803	75.6 -4.098	75.6 -4.580
76.3 -6.823		76.3 -9.040	76.3 -3.120	76.3 -4.657	76.3 -5.836
77.1 1.157		77.1 -7.741	77.1 -2.406	77.1 -4.657	77.1 -6.150
78.6 3.448		78.6 5.736	78.6 0.527	78.6 1.009	78,6 0,600
80.0 -5.164		80.0 -5.955	80.0 -4.230	80.0 -3.939	80.0 -5.443
85.0 -2.951		85.0 -4.737	85.0 -3.675	85.0 -2.343	85.0 -3.403
90.0 -0.976		90.0 -0.759	90.0 -1.534	90.0 -1.066	90.0 -1.441
95.0 -0.660		95.0 0.297	95.0 -1.059	95.0 -0.667	95.0 -0.891
2.5 -0.581		2.5 0.540	2.5 0.289	2.5 2.765	2.5 -0.891
5.0 -0.502		5.0 2.976	5.0 0.447	5,0 2,286	5.0 -0.735
7.5 -0.107		7.5 3.544	7.5 0.527	7.5 0.770	7.5 -0.578
10.0 0.762		10.0 3.382	10.0 0.606	10.0 1.648	10.0 -0.107
15.0 0.920		15.0 2.164	15.0 0.527	15.0 0.530	15.0 0.207
20.0 0.920		20.0 1.190	20.0 0.527	20.0 0.690	20.0 0.207
30.0 0.920		30.0 0.784	30.0 0.527	30,0 0,610	30.0 0.129
50.0 1.236		50.0 2.732	50.0 0.527	50.0 0.530	50.0 0.207
65.0 3.053		65.0 7.035	65.0 0.923	65.0 2.685	65.0 0.600
70.0 3.211		70.0 6.791	70.0 0.844	70.0 1.648	70.0 0.914
76.8 1.473		76.8 7.116	76.8 0.923	76.8 1.728	76.8 1.777
77.1 4.949		77.1 6.629	77.1 0.923	77.1 1.807	77.1 1.620
80.0 4.633		80.0 7.035	80.0 0.923	80.0 1.887	80.0 1.306
85.0 5.502		85.0 6.791	85.0 0.606	85.0 1.329	85.0 2.405
90.0 6.371		90.0 6.061	90.0 0.527	90.0 1.009	90.0 2.405
95.0 5.265		95.0 5.086	95.0 0.606	95.0 0.770	95.0 2.326
TOTAL NORMAL					
N = 5.16	8.74	7.33	2, 99	3.68	2.71

RUN 75, PO	INT 6	Q = 3.44	ALPHA = 1	2 TCP =	1.60
	WALLE 2	441 VE 4	VALVE 5	VALVE 6	VALVE 7
VALVE 1 100X CP	VALVE 3	VALVE 4	100X CP	100X CP	100X CP
03.289		08.239	01.255	00.522	02.053
1.2 -2.148		1.2 -2.290	1.2 -2.237	1.2 -2.417	1.2 -1.648
2.5 -2.066		2.5 -3.547	2.5 -3.137	2.5 -2.911	2.5 -1.972
5.0 -2.800		5.0 -5.474	5.0 -3.709	5.0 -3.158	5.0 -2.863
7.5 -3.289		7.5 -6.396	7.5 -2.319	7.5 -3.487	7.5 -3.187
10.0 -3.453		10.0 -6.731	10.0 -3.219	10.0 -3.323	10.0 -3.187
15.0 ~4.105		15.0 -5.977	15.0 -1.583	25.0 -3.323	15.0 -3.106
20.0 -4.676		20.0 -5.558	20.0 -3.300	20.0 -3.570	20.0 -3.268
25.0 -4.349		25.0 -5.558	25.0 -1.664	25.0 -3.817	25.0 -3.268
30.0 -4.512		30.0 -5.306	30.0 -3.382	30.0 -3.570	30.0 -3.268
40.0 -4.268		40.0 -4.888	40.0 -3.382	40.0 -3.652	40.0 -3.268
50.0 -4.431		50.0 0.642	50.0 -3.382	50.0 -3.899	50.0 -3.268
60.0 -4.512		60.0 -4.636	60.0 -3.464	60.0 -3.982	60.0 -3.592
61.5 -4.512		61.5 -2.961	62.5 -2.237	61.5 -1.511	61.5 -3.025
62.5 -9.486		62.5 -9.914	62.5 -5.427	62.5 -5.629	62.5 -5.616
65.0-15.458		65.0-14.774	65.0 -8.618	65.0 -8.841	65.0-10.314
70-0-12-095		70.0-11.506	70.0 -8.291	70.0 -7.688	70.0 -0.352
75.0 -7.692	75.0 -8.429	75.0 -7.736	75.0 -6.164	75.0 -5.711	75.0 -7.398
75.6 -7.040	75.6 -7.358	75.6 -8.323	75.6 -4.528	75.6 -5.299	75.6 -6.669
76.3 -9.404	76.3-10.653	76.3-11.590	76.3 -5.182	76.3 -6.617	76.3 -8.208
77.1 0.869	77.1-12.300	77.1-10.585	77.1 -1.992	77.1 -7.688	77-1 -8-289
78.6 5.516	78.6 7.055	78.6 6.339	78.6 0.544	78.6 0.219	78.6 0.377
80.0 -6.551	80.0 -7.853	80.0 -7.987	80.0 -6.000	80.0 -5.629	80.0 -7.398
85.0 -4.166	85.0 -6.205	85.0 -6.647	85.0 -5.100	85.0 -3.405	85.0 -3.835
90.0 -1.985	90.0 -0.934	90.0 -1.955	90.0 -2.728	90.0 -1.840	90.0 -2.134
95.0 -1.007	95.0 0.137	95.0 -0.447	95.0 -2.073	95.0 -1.181	95.0 -1.972
2.5 0.950		2.5 4.915	2.5 0.135	2.5 1.866	2.5 1.187
5.0 2.988		5.0 5.836	5.0 0.217	5.0 1.372	5.0 1.430
7.5 4.375		7.5 4.328	7.5 0.299	7.5 0.548	7.5 1.430
10.0 3.396		10.0 3.072	10.0 0.381	20.0 1.454	10.0 1.349
15.0 2.418		15.0 1.731	15.0 0.381	15.0 0.384	15.0 1.025
20.0 1.847		20.0 1.229	20.0 0.381	20.0 0.548	20.0 0.620
30.0 0.787		30.0 0.558	30.0 0.381	30.0 0.795	30.0 0.296
50.0 1.521		50.0 2.066	50.0 0.381	50.0 0.631	50.0 0.215
65.0 7.717		65.0 7.847	65.0 1.935	65.0 1.125	65.0 2.968
70.0 5.842		70.0 6.842	70.0 1.608	70.0 1.042	70.0 2.320
76.8 1.113		76.8 7.763	76.8 1.526	76.8 0.878	76.8 1.754
77.1 7.147		77.1 7.177	77.1 1.526	77.1 0.631	77.1 1.673
80.0 7.473			80.0 1.526	80.0 0.960	80.0 2.401
85.0 6.4.3		85.0 6.842	85.0 1.363	85.0 0.960	85.0 1.268
90.0 4.945			90.0 1.035	90.0 0.795	90.0 0.944
95.0 3.233			95.0 0.872	95.0 0.548	95.0 0.701
	COEFFICIENT				
N = 7.51	10.92	9.01	4.56	4.85	4.66

					ABLE V-18	3					
RUN	75, PO	NT 8		Q =	3.50	AL	PHA = 2	0	TCP =	1.60	
VAL	VE 1	VALVE	3	VALV	E 4	VALV	E 5	VAL	/E 6	VAL	/E 7
100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
0.	-4.916	08	8.609	0.	4.557	0.	-2.842	0.	-0.838	0.	-1-143
1.2	-2.112	1.2 -	5.128	1.2	-3.157	1.2	-4.692	1.2	-3.266	1.2	-1.461
	-2.512	2.5 -			-5.381		-6.46î		-3.509		-2.257
	-4.195	5.0 -			-7.357		-6.541		-3.590		-3.769
	-4.355	7.5 -6			-7.686		-2.682		-4.076		-4.008
	-4.436	10.0 -			-7.933		-3.807		-3.995		-4.008
	-4.997 -5.157	15.0 -			-6-863		-1.395		-4.480		-3.769
	-4.916	25.0 -6			-6.039		-3,405 -1,556		-4.399 -4.076		-3,849
	-5.317	30.0 -6			-5.957		-3,566		-4.257		-3.769
	-4.436	40.0 -			-5.134		-3,646		-4.076		-3.769
	-4,275	50.0 -			0.384		-3.646		-4.319		-3,690
	-4.596	60.0 -			-4.804		-3.646		-4.076		-3.849
	-3.714.	61.5 -4			-3.404		-2.038		-1.404		-2.973
62.5	-8.362	62.5-12	2.252	62.5	-9.416	62.5	-4.611		-5.371		-5,521
65.0	-14.052	65.0-14	4.275	65.0-	13,450	65.0	-7.023	65.0	-8.366	65.0	-9.739
70.0	-10.285	70.0-12	2.171	70.0	-9.416	70.0	-6.621	70.0	-7.233	70.0	-0.347
75.0	-6.359	75.0 -		75.0	-5.792		-4.933		-5.937		-5.998
75.6	-6.439	75.6 -6	6.504		-6.780		-3,727		-4.966		-5,282
76.3	-8.202	76.3 -	B. 528		-8,757		-4, 209		-5,695		-6.476
	1.04	77.1 -			-6.698		-2.038		-6,018		-6.635
78.6		78.6			6.395		0.374	78.6		78.6	
	-5.557	80.0 -			-5.298		-4.852		-4.561		-5.998
	-4.035	85.0 -			<u>-4.063</u>		-4-129		-2.780		-3.133
	-1.310 -0.910	90.0 -0			-1.510 -1.099		-2.440 -1.877		-1.647 -1.485		-1.700 -1.381
2.5			9.119		4.583	2,5			1,429		2,201
5.0			7.662	5.0	4.089	5.0	0.213	5.0	1.348	5.0	
7.5			6.124	7.5	3.183	7.5	0.293	7.5	0.619	7.5	1.723
10.0			5.314		1.948	10.0		10.0		10.0	
15.0			3.048	15.0	1.125	15.0	0.374	15.0	0.296	15.0	
20.0			0.457	20.0	0.795	20.0	0.374	20.0	0.538	20.0	0.847
30.0	0.533	30.0	0.538	30.0	0.631	30.0	0.374	30.0	0,862	30.0	
50.0			1.834	50.0	1.125	50.0	0.374	50.0	0.862	50.0	
65,0			9.362	65.0	7.712	65.0	2.143	65.0	1.267	65.0	2.439
70.0			6,933	70.0	5.489	70.0	1,499	70.0	1.267	70.0	1.325
76.8			7.500	76.8	7.218	76.8	1.097	76.8	0.943	76.8	0.847
77.1			7.581	77.1	7.300	77.1	1.178	77-1	0.862	77.1	0.847 1.405
80.0			7.986	85.0	7.300	85.0	1.097 0.937	80.0 85.0		80.0 85.0	
85.0 90.0			5。476 4。262	90.0	5.077 3.183	90.0	1.017	90.0	0.862	90.0	
95.0			4°202 3°048	95.0	1.948	95.0	0.776			95.0	
		COEFFIC		2254	W6 3 7 0		40119	,,,,,,	48144		49 177
	7.15	10.			.07		45		5.12		4. 70

VALVE 1 VALVE 3 VALVE 4 VALVE 6 VALVE 7 160X CP 100X CP 100X CP 100X CP	VALVE 8
100X CP 100X CP 100X CP 100X CP 100X CP	
	100X CP
0. 0.985 0. 0.983 0. 0.912 0. 0.964 0. 0.171	0. 0.861
1.2 0.012 1.2 0.756 1.2 0.278 1.2 0.013 1.2 0.215	1.2 0.261
2.5 -0.008 2.5 0.447 2.5 -0.130 2.5 -0.008 2.5 0.016	2.5 0.261
5.0 +0.028 5.0 0.323 5.0 -0.396 5.0 -0.400 5.0 -0.360	5.0 0.137
7.5 -0.231 7.5 -0.028 7.5 -0.498 7.5 -0.524 7.5 -0.426	7.5 -0.318
10.0 -0.231 10.0 -0.193 10.0 -0.560 10.0 -0.524 10.0 -0.492	10.0 -0.400
15.0 -0.251 15.0 -0.214 15.0 -0.621 15.0 -0.545 15.0 -0.514	15.0 -0.483
20.0 -0.717 20.0 -0.214 20.0 -0.621 20.0 -0.586 20.0 -0.603	20.0 -0.524
25.0 -0.717 25.0 -0.255 25.0 -0.744 25.0 -0.648 25.0 -0.647	25.0 -0.566
30.0 -0.737 30.0 -0.400 30.0 -0.744 30.0 -0.669 30.0 -0.669	30.0 -0.566
40.0 -01656 40.0 -0.462 40.0 -0.662 40.0 -0.628 40.0 -0.625	40.0 -0.504
50.0 -0.575 50.0 -0.462 50.0 -0.458 50.0 -0.586 50.0 -0.536	50.0 -0.442
60-0 -0.433 60-0 -0.482 60-0 -0.498 60-0 -0.400 60-0 -0.426	60.0 -0.297
61.5 -0.231 61.5 -0.400 61.5 -0.192 61.5 -0.338 61.5 -0.205	61.5 -0.256
62.5 -0.170 62.5 -0.297 62.5 -0.171 62.5 -0.235 62.5 -0.183	62.5 -0.132
65.0 -0.170 65.0 -0.235 65.0 -0.171 65.0 -0.214 65.0 -0.183	65.0 -0.173
70.0 -0.170 70.0 -0.235 70.0 -0.171 70.0 -0.214 70.0 -0.183	70.0 -0.194
75.0 -0.231 75.0 -0.214 75.0 -0.171 75.0 -0.152 75.0 -0.161	75.0 -0.132
75.6 -0.129 75.6 -0.214 75.6 -0.110 75.6 -0.090 75.6 -0.117	75.6 -0.152
76.3 -0.109 76.3 -0.214 76.3 -0.090 76.3 -0.090 76.3 -0.161	76.3 -0.132
77.1 -0.089 77.1 -0.214 77.1 -0.110 77.1 -0.070 77.1 -0.161	77.1 -0.132
78.6 -0.069 78.6 -0.214 78.6 -0.130 78.6 -0.070 78.6 -0.050	78.6 -0.111
80.0 -0.048 80.0 -0.152 80.0 -0.069 80.0 -0.070 80.0 -0.006	80.0 -0.111
85.0 -0.028 85.0 -0.111 85.0 -0.069 85.0 -0.070 85.0 -0.050	85.0 -0.111
90.0 -0.028 90.0 -0.069 90.0 -0.049 90.0 -0.070 90.0 0.038	90.0 -0.090
95.0 -0.008 95.0 -0.049 95.0 -0.028 95.0 -0.070 95.0 0.104	95.0 -0.070
2.5 0.033 2.5 -0.028 2.5 -0.192 2.5 -0.049 2.5 0.171	2.5 -0.090
5.0 0.012 5.0 -0.008 5.0 -0.274 5.0 -0.070 5.0 0.171	5.0 -0.256
7.5  0.012  7.5  -0.028  7.5  -0.335  7.5  -0.111  7.5  0.171	7.5 -0.359
10.0 -0.008 10.0 -0.049 10.0 -0.335 10.0 -0.152 10.0 0.149	10.0 2.804
15.0 -0.048 15.0 -0.090 15.0 -0.355 15.0 -0.152 15.0 0.126	15.0 -0.380
20.0 -0.210 20.0 -0.131 20.0 -0.376 20.0 -0.152 20.0 0.126	20.0 -0.380
30.0 -0.292 30.0 -0.152 30.0 -0.376 30.0 -0.194 30.0 0.038	30.0 -0.380
50.0 -0.251 50.0 -0.173 50.0 -0.376 50.0 -0.214 50.0 -0.271	50.0 -0.276
65.0 -0.271 65.0 -0.173 65.0 -0.212 65.0 -0.194 65.0 -0.426	65.0 -0.090
70.0 -0.190 70.0 -0.173 70.0 -0.130 70.0 -0.132 70.0 -0.117	70.0 -0.132
76.8 -0.170 76.8 -0.193 76.8 -0.069 76.8 -0.111 76.8 -0.161	76.8 -0.090
77-1 -0-109 77-1 -0-193 77-1 -0-069 77-1 -0-070 77-1 -0-161	77.1 -0.070
80.0 -0.028 80.0 -0.193 80.0 -0.028 80.0 -0.049 80.0 -0.006	80.0 -0.132
85.0 -0.089 85.0 -0.193 85.0 -0.049 85.0 -0.049 85.0 -0.028	85.0 -0.049
90.0 -0.048 90.0 -0.193 90.0 -0.028 90.0 -0.028 90.0 0.126	90.0 -0.008
95.0 0.012 95.0 -0.193 95.0 -0.008 95.0 -0.008 95.0 0.016	95.0 0.034
TOTAL NORMAL COEFFICIENT	
CN ± 0.19 0.09 0.16 0.24 0.29	0.21

ŢΑ	BLE	<b>V-</b> 20
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RUN	1, P	DINT 6	Q = 10.10	ALPHA =	8 TCP =	0.
VAL	VE 1	VALVE 3	VALVE 4	VALVE 6	VALVE 7	VALVE 8
100x		100X CP	100X CP	100X CP	100X CP	100X CP
0.	-0.578	0. 0.429	00.131	00.881	0. 0.238	0. 0.617
	-2.249		1.2 -1.859	1.2 -2.399	1.2 -2.206	1.2 -1.089
	-2.147		2.5 -1.879	2.5 -2.254	2.5 -1.673	2.5 -1.006
	-1.964		5.0 -1.715	5.0 -1.630	5.0 -1.717	5.0 -0.923
	-1.923		7.5 -1.591	7.5 -1.588	7.5 -1.517	7.5 -0.985
	-1-719		10.0 -1.530	10.0 -1.338	10.0 -1.317	10.0 -0.923
		15.0 -1.129	15.0 -1.345	15.0 -1.151	15.0 -1.139	15.0 -0.923
	-1.577		20.0 -1.221	20.0 -1.068	20.0 -1.117	20.0 -0.881
25.0	-1.577	25.0 -1.025	25.0 -1.221	25.0 -1.068	25.0 -1.073	25.0 -0.860
30.0	-1.556	30.0 -1.004	30.0 -1.139	30.0 -1.006	30.0 -1.006	30.0 -0.777
40.0	-1.210		40.0 -0.933	40.0 -0.839	40.0 -0.850	40.0 -0.631
50.0	-0.925		50.0 -0.090	50.0 -0.673	50.0 -0.695	50.0 -0.590
60.0	-0.680	60.0 -0.755	60.0 -0.666	60.0 -0.423	60.0 -0.495	60.0 -0.507
61.5	-0.456	61.5 -0.527	61.5 -0.069	61.5 -0.174	61.5 -0.050	61.5 -0.382
62.5	-0.293	62.5 -0.298	62.5 -0.028	62.5 -0.153	62.5 0.016	62.5 -0.028
65.0	-0.232	65.0 -0.236	65.0 -0.028	65.0 -0.132	65.0 0.127	65.0 -0.070
70.0	-01212	70.0 -0.215	70.0 -0.110	70.0 -0.153	70.0 -0.028	70.0 -0.111
75.0	-0-232	75.0 -0.194	75.0 -0.152	75.0 -0.132		75.0 -0.070
75.6	-0.171	75.6 -0.174	75.6 -0.213	75.6 -0.070	75.6 -0.117	75.6 -0.299
76.3	-0.150	76.3 -0.194	76.3 -0.049	76.3 -0.070	76.3 -0.028	76.3 -0.278
77.1	-0.110	77.1 -0.174	77.1 -0.028	77.1 -0.049	77.1 -0.139	77.1 -0.153
78.6	-0.089	78.6 -0.174	78.6 -0.069	78.6 -0.049	78.6 -0.095	78.6 -0.091
80.0	-0-069	80.0 -0.111	80.0 -0.008	80.0 -0.049	80.0 0.061	80.0 -0.091
	-0.069	85.0 -0.070	85.0 -0.069	85.0 -0.049	85.0 0.061	85.0 -0.091
	-0.028	90.0 -0.028	90.0 -0.028	90.0 -0.070	90.0 0.172	90.0 -0.070
	-0.028			95.0 -0.070	95.0 0.038	95.0 -0.028
2.5		2.5 0.242	2.5 0.795	2.5 0.263	2.5 0.238	2.5 0.180
5.0		5.0 0.346	5.0 0.589	5.0 0.429	5.0 0.238	5.0 0.242
	0.318		7.5 0.424	7.5 0.159	7.5 0.238	7.5 0.242 10.0 2.800
10.0	0.339	10.0 0.449	10.0 0.342	10.0 0.201	10.0 0.238	
15.0	01318	15.0 0.449	15.0 0-177	15.0 0.160	15.0 0.238	15.0 0.055 20.0 0.055
	0.257	20.0 0.408		20.0 0.076	20.0 0.216 30.0 0.127	30.0 -0.028
30.0		30.0 0.346	30.0 -0.028	30.0 0.034		50.0 -0.070
	-0.008	50.0 0.304	50.0 -0.172	50.0 -0.007	50.0 0.016 65.0 -0.095	65.0 -0.070
	-0.130	65.0 0.200	65.0 -0.110	65.0 -0.049	70.0 -0.006	70.0 -0.070
	-0.089	70.0 0.159	70.0 -0.028	70.0 -0.070		76.8 -0.091
	-0.089	76.8 0.055	76.8 -0.028	76.8 -0.091	76.8 0.016 77.1 -0.028	77.1 -0.091
	-0.069	77.1 0.034	77.1 0.034	77.1 -0.070	80.0 0.305	80.0 -0.070
80.0	01013	80-0 0-013	80.0 0.116	80.0 -0.028	85.0 0.061	85.0 -0.070
	-0.008	85.0 0.013	85.0 0.034	85.0 -0.028	90.0 0.038	90.0 -0.070
	-0.028	90.0 0.013	90.0 0.034	90.0 -0.007	95.0 0.105	95.0 -0.070
	-0.008	95.0 0.013 COEFFICIENT	95.0 0.034	73.0 -0.007	3380 0.103	,,,,,
			0.69	0.69	0.72	0.58
n ~	A 4 4 D	0.93	0.09	0.69	23.60	V. 20

TABLE V	7-21
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RUN 1, PO	INT 8	Q = 10.16	ALPHA = 1	6 TCP =	0.
VALVE 1	VALVE 3	VALVE 4	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
			06.065	0. 0.193	01.868
05.213	. 05.746	05.038 1.2 -5.242	1.2 -4.763	1.2 -6.500	1.2 -3.481
1.2 -5.132	1.2 -5.602	2.5 -4.424	2.5 -4.287	2.5 -4.380	2.5 -3.130
2.5 -4.788 5.0 -4.768	5.0 -3.785	5.0 -3.402	5.0 -3.543	5.0 -3.629	5.0 -2.551
7.5 -4.525	7.5 -3.166	7.5 -2.891	7.5 -3.088	7.5 -2.900	7.5 -2.013
10.0 -4.282	10.0 -2.732	10.0 -2.645	10.0 -2.385	10.0 -2.303	10.0 -1.682
15.0 -4.120	15.0 -2.567	15.0 -2.134	15.0 -2.116	15.0 -1.884	15.0 -1.579
20.0 -3.694	20.0 -2.423	20.0 -1.827	20.0 -1.682	20.0 -1.685	20.0 -1.413
25.0 -3.654	25.0 -2.258	25.0 -1.684	25.0 -1.641	25.0 -1.552	25.0 -1.289
30.0 -3.512	30.0 -2.072	30.0 -1.459	30.0 -1.331	30.0 -1.376	30.0 -1.165
40.0 -3.390	40.0 -1.824	40.0 -1.091	40.0 -1.227	40.0 -1.111	40.0 -0.938
50.0 -3.350	50.0 -1.576	50.0 0.033	50.0 -0.938	50.0 -0.801	50.0 -0.773
60.0 -3.309		60.0 -0.723	60.0 -0.814	60.0 -0.647	60.0 -0.607
61.5 ~3.269	61.5 -1.184	61.5 -0.110	61.5 -0.132	61.5 -0.072	61.5 -0.070
62.5 -3.249	62.5 -0.833	62.5 0.094	62.5 -0.132	62.5 0.038	62.5 -0.070
65.0 -3.188	65.0 -0.647	65.0 0.013	65.0 -0.111	65.0 0.038	65.0 -0.049
70.0 -3.087	70.0 -0.647	70.0 -0.192	70.0 -0.111	70.0 -0.161	70.0 -0.152
75.0 -3.026	75.0 -0.627	75.0 -0.274	75.0 -0.111	75.0 -0.448	75.0 -0.070
75.6 -3.026	75.6 -0.462	75.6 -0.396	75.6 -0.090	75.6 -0.448	75.6 -0.586
76.3 -3.026	76.3 -0.441	76.3 -0.192	76.3 -0.090	76.3 0.038	76.3 -0.483
77.1 -3.026	77.1 -0.379	77.1 -0.008	77.1 -0.070	77.1 -0.028	77.1 -0.194
78.6 -3.006	78.6 -0.379	78.6 -0.008	78.6 -0.049	78.6 -0.337	78.6 -0.152
80.0 -3.006	80.0 -0.317	80.0 -0.008	80.0 -0.049	80.0 -0.139	80-0 -0-132
85.0 -2.985	85.0 -0.297	85.0 -0.171	85.0 -0.070	85.0 -0.337	85.0 -0.194
90.0 -2.985	90.0 -0.297	90.0 -0.110	90.0 -0.090	90.0 0.038	90.0 -0.297
95.0 -2.965	95.0 -0.255	95.0 -0.090	95.0 -0.090	95.0 -0.050	95.0 -0.214
2.5 -2.965	2.5 -0.090	2.5 0.892	2.5 0.282	2.5 0.193	2.5 0.344
5.0 -2.965	5.0 0.013	5.0 0.933	5.0 0.592	5.0 0.193	5.0 0.737
7.5 -2.965	7.5 0.137	7.5 0.892	7.5 0.365	7.5 0.193	7.5 0.757
10.0 -2.945	10.0 0.240	10.0 0.790	10.0 0.468	10.0 0.215	10.0 2.598
15.0 -2.945	15.0 0.261	15.0 0.606	15.0 0.323	15.0 0.215	15.0 0.323
20-0 -2,925	20.0 0.261	20.0 0.483		20.0 0.193	20.0 0.323
30.0 -2.904	30.0 0.240	30.0 0.278	30.0 0.261	30.0 0.126	30.0 0.282
50.0 -2.904	50.0 0.240	50.0 0.054	50.0 0.220	50.0 -0.050	50.0 0.199
65.0 -2.904	65.0 0.178	65.0 -0.008	65.0 0.055	65.0 0.038	65.0 -0.028
70.0 -2.904	70.0 0.158	70.0 0.074	70.0 0.013	70.0 -0.028	70.0 -0.049
76.8 -2.904	76.8 0.096	76.8 0.033	76.8 0.013	76.8 -0.028	76.8 -0.173 77.1 -0.111
77.1 -2.904	77.1 0.075	77.1 0.094	77.1 -0.008	77.1 -0.006	80.0 0.137
80.0 -2.904	80.0 0.054	80.0 0.258	80.0 0.013	80.0 0.237 85.0 0.016	85.0 -0.070
85.0 -2.884	85.0 0.034	85.0 0.094	85.0 0.013	85.0 0.016 90.0 0.038	90.0 -0.070
90.0 -2.884	90.0 0.034	90.0 0.074 95.0 0.033	90.0 0.013	95.0 -0.183	95.0 -0.111
95.0 -2.884	95.0 0.013	95.0 0.033	95.0 0.013	77.U -U.183	*2*0 -0*111
TOTAL NORMAL N = 0.50		1.22	1.24	1.14	1.09
/N - U-30	1.00				

TABLE V-2

RUN	5, P01	NT 3		Q = 8	.12	AL	РНА ≈	0	TCP 10	0.			
VALV		VALVE		VALVE		VALV		VALV		VALV		VALV	
100%	СP		CP	TOOX	CP	100X	CP	100X	CP	100X	CP	100X	CP
9.	1.046	Oh 1	.140		0.976	0.	0.712	0.	0.658	Q.	0.021	0.	1.637
F.2	09100		.991		0.241	1.2	0.380	1.2	0.226	1.2	0.145	1.2	0.398
2.5	01151		-742	2.5 -		2.5	0.151		-0.384	2.5	0.021	2.5	0.211
5.0			. 295	5.0 -			-0.028		-0.562		-0.251		-0.028
	-04369		- 220	7.5 -			-0.003		-0.689		-0.350		-0.161
	-01514		. 171	10.0 -			-0.666		-0.714		-0.325		-0.268 -0.374
	-01919	15.0 -0		15.0 -			-0.335		-0.714		-0.474 -0.623		-0.428
	-0.719	20.0 -0		20.0 -			-0.641		-0.714		-0.598		-0.508
	-01719	25.0 -0		25.0 ~			-0.564		-0.740 -0.867		-0.598		-0.534
	-0.770	30.0 -0		30.0 -			-0.564		-0.841		-0.548		-0.481
	-03667	40.0 -0		40.0 ~			-0.590 -0.615		-0.765		-0.499		-0.401
	-01591	50.0 -0		50.0 -			-0.590		-0.613		-0.375		-0.268
	-0.437	61.5 -6		61.5 -			-0.564		-0.536		-0.202		-0.108
	-0.207	6245 -6		62.5 -			-0.564		-0.460		-0.177	62.5	0.504
	-0:182	65.0 -0		65.0 -			-0.539		-0.435		-0.152	65.0	
	-0.182	70.0 -0		70.0 -			-0.513		-0.409		-0.177		-0.081
	-01233	75.0 -0		75.0 -			-0.488		-0.359		-0.152		-1.200
	-0-105		.021	75.6 -			-0.360		-0.282		-0.103		-0.081
	-0.105		.071	76.3 -			-0.309		-0.282		-0.177		-0.002
	-0.182		0.071	77.1 -			-0.258		-0.282		-0.177	77.1	0.025
	-0-130	7846 -0		78.6 -			-0.258	78.6	-0.282	78.6	-0.078	78.6	0-025
	-03105		0.071	80.0 -	0.053	80.0	-0.258	80.0	-0.282		-0-028	80.0	0.025
	-0:258		0.071	85.0 -			-0-232	85.0	-0.257	85.0	-0.053	85.0	0.052
	-01156	90.0	121	90.0 -	0.028	90.0	-0.207	90.0	-0.232	90.0	-0.003	90.0	0.078
95.0	-01003	95.0	1.146	95.0 -	0.004	95.0	-0.207	95.0	-0.181	95.0	0.046	95.0	0.132
2.5	03023		0-096	2.5 -			-0.181		-0.308	2.5	0.021		-0.294
5.0	0-074		. 121	5.0 -			-9-207		-0.460	5.0	0.021		-0.374
7.5	02151	7.5 -0		7.5 -			-0.309		-0.384	7.5	0.021		-0.348
10.0	0.135	10.0 -0		10.0 -			-0.335		-0.435		-0.003	10.0	1.037
	-01207	1510 -0		15.0 -			-0.360		-0.257		-0.003	15.0	0.105
	-01258	20.0 -0		20.0 -			-0.386		-0.333		-0.053		-0.374
	-01335	30.0 -0		30.0 -			-0.427		-0.562		-0.053 -0.251		-0.215
	-0.258	50.0 -0		50.0 -			-0.437		-0.511		-0.301		-0.028
	-0,233	65.0 -0		65.0 - 70.0 -			-0.386 -0.360		-0.359		-0-127		-0.081
	-04155		0.021	76.8 ~			-0.309		-0.308		-0.177		-0.002
	-01593		0.045 0.071	77.1 -			-0.309		-0.282		-0.152		-0.002
	01023		5.121	60.0 -			-0.258		-0.257		-0.003		-0.055
	-01130		0.096	85.0 -			-0.232		-0.232		-0.003		-0.002
	0.049	90.0		90.0 -			-0.232		-0.181		0.046	90.0	0.052
	-03003		0.121	95.0 -			-0.207		-0.130	95.0	0.071	95.0	0.105
		COEFFIC											
	0.25	0.6		0,	12		0.08		0.17		22		0.17

RUN 5, POI	NT 6	Q = 8.24	ALPHA = 1	2 TCP №	0.	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
01.666	03.113	03.092	02.670	03.785	0. 0.143	00.15
1.2 -3.505	1.2 -3.309	1.2 -3.792	1.2 -2.821	1.2 -4.035	1.2 -3.397	1.2 -2.10
2.5 -3:304	2,5 -3.260	2.5 -3.261	2.5 -2.821	2.5 -3.309	2.5 -2.347	2.5 ~1.78
5.0 -34178	5:0 -2.967	5.0 -2.562	5.0 -2.645	5.0 -2.508	5.0 -2.225	5.0 -1.60
7.5 -2.523	7.5 ~2.550	7.5 -2.248	7.5 -0.657	7.5 -2.257	7.5 -1.859	7.5 -1.44
10.0 -1.968	10.0 -1.889	10.0 -2.103	10.0 -1.563	10.0 -1.856	10.0 -1.469	10.0 -1.23
15.0 -1:842	15)0 -1.742	15.0 -1.741	15.0 -0.431	15.0 -1.556	15-0 -1-347	15.0 -1.23
20.0 -1.742	20.0 -1.644	20.0 -1.500	20.0 -1.060	20.0 -1.356	20.0 -1.639	20.0 -1.10
25.0 -1.590	25.0 -1.522	25.0 -1.452	25.0 -0.355	25.0 -1.356	25.0 -1.249	25.0 -1.05
30.0 -1.490	30.0 -1.448	30.0 -1.307	30.0 -0.833	30-0 -1-255	30.0 -1.054	30.0 -0.94
40.0 -1.238	4010 -1.326	40.0 -1.017	40.0 -0.959	40.0 -1.055	40.0 -0.883	40.0 -0.73
50.0 -1.011	50.0 -1.228	50.0 -0.052	50.0 -0.657	50.0 -0.905	50.0 -0.712	50-0 -0-60
60.0 -0.759	60.0 -0.738	60.0 -0.680	60-0 -0-406	60.0 -0.679	60.0 -0.492	60-0 -0-42
61.5 -03457	61.5 -0.493	61.5 -0.101	61.5 -0.003	61.5 -0.279	61.5 -0.004	61.5 -0.05
62.5 -01230	62.5 -0.298	62.5 0.044	62.5 -0.003	62.5 -0.229	62.5 0.069	62.5 0.49
45.0 -0.179	65.0 -0.224	65.0 0.020	65.0 -0.028	65.0 -0.229	65.0 0.021	65.0 0.39
70.0 -0.205	70.0 -0.224	70.0 -0.101	70.0 -0.079	70.0 -0.304	70.0 -0.004	70.0 0-15
75.0 -04280	75.0 -0.273	75.0 -0.173	75.0 -0.079	75.0 -0.379	75.0 -0.199	75.0 -0.39
75.6 -01205	75.6 -0.175	75.6 -0.294	75.6 -0.179	75.6 -0.279	75.6 -0.028	75.6 -0.50
76.3 -0.154	76.3 -0.175	76.3 -0.125	76.3 -0.079	76.3 -0.204	76.3 -0.004	76.3 -0-18
77.1 -04154	77.1 -0.151	77-1 -0.004	77.1 0.022	77.1 -0.178	77-1 -0-004	77.1 -0.05
78.6 -0.003	78.6 -0.151	78.6 -0.004	78.6 0.047	78.6 -0.153	78.6 -0.126	78.6 -0.05
80.0 -0.079	80.0 -0.126	80-0 -0-004	80.0 0.022	80-0 -0-204	80.0 0.045	80.0 -0.02
85.0 -0.079	85.0 -0.126	85.0 -0.101	85.0 0.022	85.0 -0.229	85.0 -0.126	85.0 -0.13
90.0 -0.079	90 20 -0-126	90.0 -0.076	90.0 0.022	90.0 -0.229	90.0 -0.004	90.0 -0.08
95.0 -0.028	95.0 -0.102	95.0 -0.028	95.0 -0.003	95.0 -0.178	95.0 0.045	95.0 -0.00
2.5 0.375	2.5 0.388	2.5 0.913	2.5 0.727	2.5 0.898	2.5 0.143	2.5 0.89
5.0 0.551	5.0 0.510	5.0 0.840	5.0 0.777	5.0 0.773	5.0 0.143	5.0 0.69
7.5 0.627	7.5 0.559	7.5 0.744	7.5 0.752	7.5 0.072	7,5 0.143	7.5 0.54
10.0 0.627	10.0 0.559	10.0 0.647	10.0 0.651	10.0 0.523	10.0 0.167	10.0 1.10
15.0 0.577	15.0 0.559	15.0 0.454	15.0 0.601	15.0 -0.003	15.0 0.143	15.0 0.62
20.0 0.400	20.0 0.535	20.0 0.334	20.0 0.550	20.0 -0.003	2010 0-143	20.0 0.12
30.0 0.274	30.0 0.388	30.0 0.165	30.0 0.148	30.0 -0.103	30.0 0.094	30.0 0.02
50.0 0.073	50.0 0.339	50.0 -0.004	50.0 0.072	50.0 -0.229	50.0 -0.053	50.0 -0.00
65.0 -0.079	65.0 0.315	65.0 -0.028	65.0 0.198	65.0 -0.153	65.0 0.240	65.0 0.02
70.0 -0.028	7010 0.266	70.0 0.020	70.0 0.047	70.0 -0.128	70.0 -0.565	70-0 -0-02
76.8 -0.053	76.8 0.192	76.8 -0.004	76.8 -0.053	76.8 -0.153	76.8 -0.004	76.8 -0.05
77.1 04047	77.1 0.168	77-1 0-044	77.1 0.022	77-1 -0-078	77-1 -0-004	77.1 -0.05
80.0 01148	80.0 0.158	80.0 0.189	80.0 0.223	80-0 0-047	80.0 0.411	80.0 0.15
85.0 -0.003	85.0 0.168	85.0 0.092	85.0 0.223	85.0 -0.053	85.0 0.143	85.0 0.05
90.0 0.148	90.0 0.143	90.0 0.092	90.0 0.072	90.0 -0.053	90.0 0.143	90.0 0.05
95.0 -0.230	95.0 0.119	95.0 0.068	95.0 0.047	95-0 -0-078	95.0 0.143	95.0 0.02
OTAL NORMAL		,				
4 1.18	1.36	099	0.81	0.90	0.84	0.74

100x   CP   100x	TABLE V-24						
100x   CP   100x	UN 5, PO	OINT 10	Q = 8.06	ALPHA = 2	O TCP =	: 0∘	
054695 07-087 05-233 04-967 06-967 0. 0, 171 02. 1.2 -54824 1.2 -6-487 1.2 -5-035 1.2 -3-758 1.2 -3-894 1.2 -6-093 1.2 -6-09				VALVE 5			VALVE 8
1.2 -5.4824							
$ \begin{array}{c} 2.5 - 5 + 5 + 6 \\ 5.0 - 6 + 6 + 5 \\ 5.0 - 6 + 6 + 5 \\ 5.0 - 6 + 6 \\ 5.0 - 3 + 7 \\ 5.0 - 2 + 7 \\ 5.0 - 2 + 7 \\ 5.0 - 1 + 7 \\ 5.0 - 2 + 7 \\ 5.0 - 1 + 7 \\ 5.0 - 2 + 7 \\ 5.0 - 1 + 7 \\ 5.0 - 2 + 7 \\ 5.0 - 1 + $							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							1.2 -4.213
$\begin{array}{c} 7.5 - 3.197 \\ 10.0 - 23.501 \\ 10.0 - 2.602 \\ 10.0 - 1.508 \\ 10.0 - 2.607 \\ 10.0 - 2.602 \\ 10.0 - 1.508 \\ 10.0 - 2.607 \\$							2.5 -3.382
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							5.0 -2.630
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							7.5 -2.308
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							10.0 -1.879
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							15.0 -1.772
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							20.0 -1.504
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							25.0 -1.370
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							30.0 -1.235
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							40.0 -1.021
61.5 -0.286 61.5 -0.329 61.5 -0.201 61.5 -0.131 61.5 -0.233 61.5 -0.003 61.5 -0.652 0.075 62.5 -0.176 62.5 0.070 62.5 -0.105 62.5 -0.230 62.5 -0.250 62.5 0.179 62.5 0.652 0.015 62.5 0.015 62.5 0.005							50.0 -0.887
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							60.0 -0.699
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							61.5 -0.028
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							75.0 -0.484
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							75.6 -0.404
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							76.3 -0.431
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					77.1 -0.361	77.1 0.097	77.1 -0.189
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							78.6 -0.136
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							80.0 -0.109
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							85.0 -0.538
2.5 0,265 2.5 0.497 2.5 0.909 2.5 0.795 2.5 0.894 2.5 0.171 2.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0							90.0 -0.431
5-6         0.4513         5-0         0.623         5-0         0.983         5-0         0.949         5-0         0.996         5-0         0.171         5-0         0.75         0.673         7-5         0.983         7-5         0.846         7-5         0.279         7-5         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7         0.196         7-7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>95.0 -0.296</td></td<>							95.0 -0.296
7.5 0.4667 745 0.673 7.5 0.983 7.5 0.846 7.5 0.279 7.5 0.196 7.5 0. 10.0 0.7119 10.0 0.673 10.0 0.860 10.0 0.789 10.0 0.842 10.0 0.196 10.0 0.196 15.0 0.4770 15.0 0.673 15.0 0.736 15.0 0.743 15.0 0.074 15.0 0.196 15.0 0. 20.0 0.4719 20.0 0.573 20.0 0.564 20.0 0.743 20.0 0.125 20.0 0.196 20.0 0. 20.0 0.4642 30.0 0.297 30.0 0.366 30.0 0.255 30.0 0.100 30.0 0.147 30.0 0. 20.0 0.4642 30.0 0.297 30.0 0.366 30.0 0.255 30.0 0.103 30.0 0.147 30.0 0. 20.0 0.4642 30.0 0.297 30.0 0.366 30.0 0.255 30.0 0.103 50.0 0.072 50.0 0.							2.5 0.911
10.0 0-719 10.0 0.673 10.0 0.860 10.0 0.769 10.0 0.842 10.0 0.196							
15-0     0.4770     15-0     0.673     15-0     0.736     15-0     0.743     15-0     0.074     15-0     0.196     15-0     0.       20-0     0.4710     20-0     0.564     20-0     0.743     20-0     0.125     20-0     0.196     20-0     0.386       30-0     0.1642     30.0     0.297     30.0     0.366     30-0     0.255     30.0     0.100     30.0     0.147     30.0     0.500       50-0     0.1513     50.0     0.272     50.0     0.070     50.0     0.049     50.0     -0.131     50.0     0.072     50.0     0.0							
20.0 0.7119 20.0 0.573 20.0 0.564 20.0 0.743 20.0 0.125 20.0 0.196 20.0 0.300 0.100 0.000 0.100 0.000 0.100 0.000							
39.0 01642 3010 0.297 30.0 0.366 30.0 0.255 30.0 0.100 30.0 0.147 30.0 0.50.0 01513 5010 0.272 50.0 0.070 50.0 0.049 5010 -0.131 5010 0.072 50.0 0.						15.0 0.196	
50.0 01513 5010 0.272 50.0 0.070 50.0 0.049 5010 -0.131 50.0 0.072 50.0 0.							
			65.0 0.021	65.0 0.075	65.0 0.100	65.0 0.471	65.0 0.079
							70.0 -0.028
							76.8 -0.136
							77.1 -0.028
							85.0 -0.001
							90.0 -0.001
95.0 01332 95.0 -0.128 95.0 -0.201 95.0 -0.285 95.0 -0.207 95.0 0.122 95.0 -0.			95.0 -0.201	95.0 -0.285	95.0 -0.207	95.0 04122	95.0 -0.082
TOTAL NORMAL COEFFICIENT							
<b>4</b> 1.56 1.26 1.04 0.92 1.18 1.27 1.14	1,56	1.26	1.04	0.92	1.18	1.27	1.14

TAT	SE TE	₩	25

_													
RUN	7, PO	INT 3		Q =	4.49	AL	PHA =	0	TCP =	1.00			
-VAL	/E.1	VALV	E.3	VAL	1E 4	VALV	E 5		Æ 6	VAL	/E_7	VALY	/E_8
100x	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100x	CP
0.	1.405	0.	1.005	0.	2.584	0.	2.788	0.	0.707	0.	-0.028	0.	0.646
-1-2	1.452	1.2	-0.972	1.2	-0.427	i.2	-0.305		-1.867	1.2	1.943	1.2	0.357
2.5	0.712	2.5	-0.792	2.5	-0.958	2.5	-0.767	2.5	-1.453	2.5	1.585	2.5	0.164
5.0	0.619	5.0	-0.882	5.0	-1.179	5.0	-1.044	5.0	-1.269	5.0	0.913		-0.076
-7.5	0.573	. 7.5	-0.837	. 75.	-1.268	7.5_	-0.444	7.5	-1.499	7.5	0.420		-0.173
10-0	-0.306	10.0	-0.747	10.0	-1.357	10.0	-1.321		-1.361	10.0	0.241		-0.317
15.0	-0.537		-0.882		-1.357		-0.351		-1.223	15.0	0.151		-0.462
	-0.768		-0.682		-1.268		-0.398		-1.177		-0.611		-0.558
	-0.814		-1.062		-1.312		-0.305		-1.269		-0.835		-0.606
	-0.907		-1.107		-1.312		-0.398		-1.269		-0.924		-0.654
	-0-768		-1.062		-1.179		-1.044		-1.177		-0.924		-0.606
	-0.676		-0.747		-0.427		-1.044		-1.039		-0.835		-0.558
	-0.444		-1.197		-0.781		-1.044		-0.718		-0.655		-0.413
	-0.306		0.062		-0.117		-0.952		-0.810		-0.297		-0.365
	-0.074	62.5	0.107		-0.072		-0.905		-0.396		-0.252		-1.232
	-0.074	65.0	0.062		-0.072		-0.859		-0.396		-0.207		-0.125
	-0.074		-0.163		-0.072		-0.628		-0.442				-0.173
	-0.213		-0.253		-0.117		-0.536		-0.166		-0.163		-3.447
75.6	0.111		-0.523		-0.161		-0.398		-0.304		-0.028		-0.317
76-3	0.111		-0.073		-0.028		-0.398		-0.166		-0.252		-0.173
	-0.167		0.017						-0-120		-0.252		-0.028
78.6	0.018		-0.298		-0.072		-0.767 -0.721		-0.074 -0.028	78.6 80.0	0.017		-0.076
80.0	0.111 -0.157	80.0	0.062 -0.073	80.0	0.060 _0.016		-0.721		-0.028		0.106		-0.028
		90.0	0.107	90.0	0.060		-0.444	90.0	0.064	90.0	0.196		-0.028
90.0 95.0	0.249 0.388	95.0	0.196	95.0	0.105		-0.398	95.0	0.202	95.0	0.285	95.0	
	0.342										-0.028		
	-0.768	5.0	0.736	5.0	0.459	5.0	0.203	5.0	0.845		-0.028		-0.847
	-0.537	7.5	0.781	7.5	0.149	7.5	0.064		0.064		-0.028		-0.702
	-0.537		0.781		0.060		-0.213		0.477		-0.028		-1.328
	-0.398	15.0	0.781		-0.072		-0.259		-0.120		-0.073		-0.799
	-0.306	20.0	0.646		-0.205		-0.259		-0.166		-0.163		-0.606
	-0.444	30.0	0.107		-0.338				-0.442		-0.163		
	-0.352	50.0	0.062		-0.427		-0.351		-0.442		-0.387		-0.365
	-0.306	65.0	0.286		-0.338		-0.167		-0.212		-0.342	65.0	-0.173
70-0	0.018		0-241	70-0	-0.072	70-0.	-0.121	70-0	-0.074	_70.0	-0-163	70.0	-0.125
76.8	-0.213	76.8	-0.657	76.8	-0.072	76.8	-0.121	76.8	-0.074	76.8	-0.252	76.8	-0.125
77.1	0.064	77.1	0.241	77.1	0:060		-0.074	77.1	0.110	77.1	-0.252	77.1	-0.076
80.0	0.295	80.0	0.196	80.0	0.105	80.0	0.018	80.0	0.385	80.0	0.061	80.0	0.020
85.0	0.157	85.0	0.196	85.0	0.105	85.0	0.064	85.0	0.202	85.0	0.106	85.0	0.020
9.0 • 0	0.249	90.0	0.062	90.0	0.105	90.0	0.110	90.0	0.202	90.0	0.241	90.0	0.068
95 .0	0.342	95.0	0.152	95.0	0.149	95.0	0.156	95.0	0.294	95.0	0.330	95.0	0.116
	NORMAL												
1 = (	0.07	(	18.		0.54	(	.53	(	0.68		0.14	(	1.16

TABLE	V-26

							,						general e
RUN	7, POI	INT 6		Q =	4.61	Al	PHA = 1	2	TCP =	1.00			gar-sile e
- VALV	<i>(</i> <b>c</b> 1	1/4/3	6E - 2	12411	Œ 4		/E 5		Æ 6	22.4.1.31	E 7	1/41	VE_8
100X	CP	100X	CP	100x	CP	100X		100X	CP	100X	CP	100X	
0.	2.359		-4.755		-3.090		-3.131		-6.027	0.	0.059		-0.779
	-2.325						-6.729		-8.489		-2.603		-2.514
	-21415		-5.368		-5.980		-5.694		-6.161		-1.992		-2.092
	-2.280		-4.142		-4.772		-4.615		-4.415		-2.559		-1.811
													-1.670
	-1.785		-2.435		-3.910		-3.581		-2.983		-1.948		-1.482
	-1.785		-2.304		-3.047		-0.703		-2.401		-1.468		-1.482
							-1-018				-1.992		-1.435
	-1.650		-2.129		-2.486		-0.568				-2.036		-1.341
	-1.605		-2.041		-2.185		-1.107		-1.953		-1.905		-1.201
							-1.602						
	-0.929	50.0	-1.254		-0.114		-1.602		-1.371		-1.381		-0.826
	-0.524		-1.079		-1.063		-1.512		-0.923				-0.591
-61.5	-0.118	-61-5	0.191				-0.703	61.5	-0.521	61-5	-0.072	-61.5	-0.357
62.5	0.467	62.5	0.716	62.5	0.317	62.5	-0.163	62.5	-0.162	62.5	-0.028	62.5	-1.295
65.0	0.467	65.0	0.453	65.0	0.274	65.0	0.107	65.0	-0.162	65.0	-0.028	65.40	0.066
70.0	-0+332	70.0	-0.116	70.0	0.015	70.0	0.107	70.0	-0.252	70-0	-0.072	70.0	0.066
75.0	-0.073	75.0	-0.378	75.0	-0.158	75.0	0.017	75.0	-0.386	75.0	-0.290	75.0	-2.842
75.6	0.467	75.6	-0.510	75.6	-0.459	75.6	-0.073	75.6	-0.610	75.6	0.321	75.6	-0.591
76.3	0.512		0.016	76.3	-0.028	76.3	0.017	76.3	-0.207	76.3	-0.072	76.3	-0.216
												77.1	-0.075
	-0.028		-0.378		0.187	78.6	0.062		-0.118		0.015		-0.169
80.0	0.557		0,278		0.231		0.107		-0.118	80.0		80.0	-0.075
	0.557						0.017		-0.297		-0.072		-0.263
90.0	0.557	90.0		90.0		90.0	0.107		-0.073	90.0	0.103	90.0	-0.216
95.0	0.602	95.0		95.0		95.0	0.197		0.017	95.0	0.321		-0.122
	1.188								3.016				0.675
5.0	1.323	5.0	2.510	5.0	1.826	5.0	2.175		2.523	5.0	0.059		0.347
7.5	1.278	7.5	2.204	7.5	1.481	7.5	1.456	7.5		7.5	0.059		0.300
	1.143				1.222		1.186		_1.807				-1.201
15.0	0.782	15.0	2.116	15.0	0.877	15.0			0.017	15.0	0.059		-0.779
20.0	0.692	20.0	1.329	20.0	0.619	20.0	0.511		0.106	20.0	0.015		-0.310
	0.467						0.242						-0.357
50.0	0.332	50.0	0.628	50.0	0.144	50.0	0.242		-0.073		-0.290		-0.169
65.0	0.107	65.0	0.716	65.0	0.101	65.0	0.601		0.509		-0.028		-0.122
							0.332						-0.122
76.8	0.332		-0.816	76.8	0.144		-0.028		-0.028		-0.072		-0.169
											-0.072		
77.1	0.557	77.1		77.1	0.274	77.1	0.152		0.464				
BO . O	1.053	80.0	0.497	80.0	0.532	80.0	0.377		0.957		0.452	80.0	
85.0		85.0		85.0	0.317			85.0			0.408		-0.028
90.0	0.647	90.0	0.409	90.0	0.317	90.0	0.377	90.0	0.464	90.0	0.495	90.0	
95.0				72.0	TT-2TT	_ 72.0	0.287	72.0	0.375	72.0	U. 539	72.0	0.019
CN - INTAL	NORMAL										12		0.75
CN = 1	1.50	ž	2.06		1.80		1.58		-80	1	.12		0.75

RUN	7, POI	NT 12	Q = 4.67	ALPHA = 2	4 TCP =	1.00	
-VAL		VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X	CP	100X CP	LOOX CP	100X CP	100X CP	100X CP	100X CP
0.	-0.428	011.002	05.094	04.290	011.871	0. 0.144	05.862
	-7-675		1.2 -5.009	1.2 -1.848	1.2-11.473	1.2 -7.997	1.2 -6.279
	-6.475	2.5 -7.719	2.5 -4.115	2.5 -1.759	2.5 -7.806	2.5 -5.671	2.5 -4.797
	-5.675	5.0 -5.558	5.0 -2.199	5.0 -1.493	5.0 -5.773	5.0 -5.499	5.0 -3.964
		-7-5 -4-089	7.5 -1.901		7-5 -4-536	7.5 -4.594	7.5 -3.408
	-3.941	10.0 -3.096	10.0 -1.774	10.0 -1.404	10.0 ~3.652	10.0 -3.690	10.0 -2.800
	-3.541	15.0 -2.620	15.0 -1.263	15.0 -0.161	15.0 -2.503	15.0 -2.785	15.0 -2.579
	-3.274	20.0 -2.404	20-0 -1.561	20.0 -0.650	20.0 -2.193	20.0 -3.216	
	-2.785	25.0 -2.059	25.0 -1.348	25.0 -0.073	25.0 -1.884	25.0 -3.130	25.0 -2.019
	-2.829	30.0 -1.540	30.0 -1.348	30.0 -0.073	30.0 -1.752	30.0 -2.914	30.0 -1.834
				40.0 -1.271			
	-1.406	50.0 -1.411	50.0 0.014	50.0 -1.404	50.0 -1.840	50.0 -2.139	50.0 -1.41
	-1.051	60.0 -1.411	60.0 -1.391	60.0 -1.316	60.0 -1.177	60.0 -1.579	60.0 -1.278
	-0.295				61.5 -0.293	61.5 0.101	61.5 -0.12
	0.194	62-5 0-447	62.5 0.355	62.5 0.105	62.5 -0.161	62.5 0.187	62.5 -0.81
	0.061	65.0 0.404	65.0 0.014	65.0 -0.117	65.0 -0.338	65.0 0.187	65.0 0.06
		70.0 -0.158			70.0 -1.089	70.0 -0.028	70-0-0-48
	-0.695	75.0 -0.849	75.0 -1.391	75.0 -1.138	75.0 -1.575	75.0 -0.847	75.0 -2.11
	-0.250	75.6 -0.935	75.6 -1.348	75.6 -0.916	75.6 -1.840	75.6 0.359	75.6 -1.00
	-0.162	76.3 -0.287	76.3 -0.582	76.3 -0.738	76.3 -0.868	76.3 0.058	76.3 -0.49
				77.1 -2.914		77-1 0-058	_77.1.=0.26
	0.239	78.6 -0.071	78.6 -0.071	78.6 -0.206	73.6 -0.338	78.6 -0.201	78.6 -0.26
80.0		80.0 -0.374	80.0 -0.454	80.0 -1.138	80.0 -0.912	80.0 0.230	80.0 -0.21
	-C-028	85.0 -1.713				85-0 -0-588	85-0 -1-00
90.0		90.0 -0.892	90.0 -1.348	90.0 -1.182	90.0 -0.868	90.0 -0.201	90.0 -0.76
	-0.162 -0.905	95.0 -0.547	95.0 -1.178	95.0 -1.538	95.0 -0.779	95.0 0.058	95.0 -0.49
5.0				2.5 0.549 5.0 0.638			2.5 0.52 5.0 0.80
7.5			5.0 0.781 7.5 0.866	7.5 0.904		5.0 0.144 7.5 0.144	7.5 0.75
		7.5 3.083 -10.0 3.083			7.5 1.077 10.0 2.358		10.0 -0.44
15.0	0.639	15.0 2.996	15.0 0.823	15.0 0.682	15.0 0.060	15.0 0.187	15.0 -0.72
20.0		20.0 1.052	20.0 0.696	20.0 0.638	20.0 0.237	20.0 0.187	20.0 -0.26
	0.550	30-0 0-793					
50.0	0.505	50.0 0.577	50.0 0.312	50.0 0.283	50.0 0.149	50.0 -0.114	50.0 -0.16
65.0		65.0 0.577	65.0 0.100	65.0 0.371	65.0 0.370	65.0 0.403	65.0 -0.16
		70.0 0.404				70.0 -0.717	70.0 -0.21
	-0.028	76.8 0.188	76.8 0.185	76.8 -0.383	76.8 -0.691	76.8 0.058	76.8 -0.44
77.1		77.1 0.490	77.1 0.270	77.1 -0.028	77.1 0.414	77.1 0.058	77.1 -0.39
80.0		80.0 0.231	80.0 0.440	80.0 0.726	80.0 0.900	80.0 1.006	80.0 -0.12
85.0		85.0 0.361	85.0 0.185	85.0 0.682	85.0 0.325	85.0 0.532	85.0 -0.16
90.0		90.0 0.188	90.0 0.014	90.0 0.549	90.0 0.193	90.0 0.575	90.0 -0.21
95.0	0.105			95.0 -0.295	95.0 0.016		95.0 -0.26
		CCEFFICIENI			V.VIU	U U 107	2240 0020
UIAI							
	2.21	2.59	1.48	1.30	2.24	2.16	1.38

· //		<u>n</u>	ABLE V-28			<u></u>
RUN 6, PO		0 = 4.64	ALPHA =	0 TCP =	2.40	
VALVE 1 100X CP	VALVE 3 100X CP	VALVE 4 100X CP	VALVE 5 100X CP	VALVE 6	VALVE 7 100X CP	VALVE 8 100X CP
010.633				C- 1-884	00-115	0. 0.298
1.2-10.589	1.2 -0.420		1.2 0.195	1.2 -3.542	1.2 4.134	1.2 0.112
2.5-10.589	2.5 -0.376		2.5 -0.698	2.5 -3.319	2.5 3.917	2.5 -0.215
- 5.0-10.544	5.0 -0.333			5.0 =2.875	5.0 2.530	5.0 -0.308
7.5-10.544	7.5 -0.593		7.5 -0.743	7.5 -2.741	7.5 1.576	7.5 -0.261
10.0-10.499	10.0 -0.724	10.0 -1.913	10.0 -0.966	10.0 -2.519	10.0 1.099	10.0 -0.354
15-0-10-454		15-0 -1-614		15.0 -2.119	15.0 0.535	15.0 -0.587
20.0-10.410	20.0 -0.941	20.0 -1.485	20.0 -0.341	20.0 -1.985	20.0 -0.982	20.0 -0.634
25.0-10.365	25.0 -1.115		25.0 -0.207	25.0 -1.985	25.0 -0.895	25.0 -0.681
30-0-10-320	30.0 -1.159				30-0 -1-112	30.0 -0.774
40.0-10.275	40.0 -1.202		40.0 -0.743	40.0 -1.896	40.0 -1.199	40.0 -0.681
50.0-10.186	50.0 -1.028	50.0 -0.457	50.0 -1.100	50.0 -1.674	50.0 -1.199	50.0 -0.681
60-0-10-141	60-0 -0-767			60.0 -1.274	60.0 -0.939	60.0 -0.681
61.5-10.052	61.5 -0.159		61.5 -1.056	61.5 -0.962	61.5 -0.418	61.5 -0.634
62.5 -9.962	62.5 0.233	62.5 0.272	62.5 -0.207	62.5 -0.740	62.5 -0.332	62.5 -1.053
65.0 -9.917		65.0 0.229		65.0 -0.606	65.00.332	65-0 -0-121
70.0 -9.828	70.0 -0.028	70.0 0.015	70.0 0.061	70.0 -0.606	70.0 -0.288	70.0 -0.308
75.0 -9.649	75.0 -0.246	75.0 -0.157	75.0 0.016	75.0 -0.251	75.0 -0.115	75.0 -3.570
75.6 -9.380	75.6 -0.811	75.6 0.100	75.6 0.374	75.6 -0.251	75.6 0.102	75.6 -0.448
76.3 -9.246	76-3 -0-202				76.3 -0.332	76.3 -0.168
77.1 -9.157	77.1 0.C59		77.1 -0.922	77.1 0.150	77.1 -0.375	77.1 -0.075
78.6 -9.067	78.6 -0.333	78.6 0.143	78.6 -0.654	78.6 0.194	78.6 0.102	78.6 -0.215
80.0 -8-933		80.0 0.400		80-0 0-328	80.0 0.319	80.0 -0.075
85.0 -8.843	85.0 -0.072	85.0 -0.114	85.0 -0.386	85.0 0.417	85.0 0.275	85.0 -0.261
90.0 -8.754	90.0 0.102		90.0 0.151	90.0 0.506	90.0 0.535	90.0 -0.215
95.0 -8.664	95-0 0-320		95.0 0.508		95.0 0.665	
2.5 -8.575	2.5 2.668	2.5 1.900	2.5 1.759	2.5 3.485	2.5 -0.115	2.5 -1.007
5.0 -8.530	5.0 2.233		5.0 1.759	5.0 2.418	5.0 -0.115	5.0 -1.193
7.5 -8.485	7-5 1-842		7.5 0.999	7-5 0-683	7.5 -0.115	7.5 -1.053
10.0 -8.441	10.0 1.581	10.0 0.400	10.0 0.687	10.0 0.817	10.0 -0.158	10.0 -0.960
15.0 -8.396	15.0 1.450		15.0 0.731	15.0 0.594	15.0 -0.202	15.0 -0.634
20-0 -8-351	20.0 1.363		20.0 0.687	20.0 0.417	20.0 -0.288	
30.0 -8.306	30.0 1.233		30.0 -0.296	30.0 -0.606	30.0 -0.202	30.0 -0.541
50.0 -8.262	50.0 1.189		50.0 0.151	50.0 -0.428	50.0 -0.635	50.0 -0.354
-65.0 = 8.217		-65-00-200		65.0 -0.073	65.0 -0.505	65.0 -0.261
70.0 -8.172	70.0 0.711	70.0 0.272	70.0 0.597	70.0 0.194	70.0 -0.115	70.0 -0.121
76.8 -8.127	76.8 0.363		76.8 0.061	76.8 0.194	76.8 -0.375	76.8 -0.168
77.1 -8.083	77.1 0.494	77.1 0.615	77.1 0.463	77.1 0.594	77.1 -0.375	77.1 -0.121
80.0 -7.993	80.0 0.494	80.0 0.529	80.0 0.999	80.0 0.995	80.0 -0.028	80.0 0.112
85.0 -7.948	85.0 0.537	85.0 0.400	85.0 0.955	85.0 0.594	85.0 0.232	85.0 0.018
	90.0 0.450		90.0 0.687	90-0 0-683	90.0 0.622	90.0 0.065
95.0 -7.859	95.0 0.450		95.0 0.776	95.0 0.817	95.0 0.579	95.0 0.112
TOTAL NORMAL	COEFFICIENT					
=_1.51	1.61	0.85	0.95	1.46	~0.03	0.26

TABLE V-29

The state of the s	CP 100X CP 100X CP 6.077 00.072 00.401 1.236 1.2 1.272 1.2 -2.172 8.390 2.5 0.622 2.5 -1.939 6.032 5.0 -0.852 5.0 -1.892 4.253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.147 2.074 50.0 -1.806 50.0 -1.147
100X CP 100X CP 100X CP 100X CP 100X CP 100X  0 = 44.682 01.941 0. 0.743 0. 0.910 06  1.2 -4.657 1.2 -7.899 1.2 -6.584 1.2 -6.775 1.2-11  2.5 -4.592 2.5 -6.029 2.5 -6.584 2.5 -6.015 2.5 -8  5.0 -4.593 5.0 -4.724 5.0 -5.384 5.0 -5.166 5.0 -6  7.5 -4.458 7.5 -3.768 7.5 -4.784 7.5 -1.324 7.5 -5  10.0 -4.413 10.0 -3.029 10.0 -4.570 10.0 -2.709 10.0 -4  15.0 -4.364 15.0 -2.637 15.0 -3.467 15.0 -1.100 15.0 -3  20.0 -4.279 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2  25.0 -4.294 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2  30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2  40.0 -4.100 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2  50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2  60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1  61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1  62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0.	CP 100X CP 100X CP 6.077 00.072 00.401 1.236 1.2 1.272 1.2 -2.172 8.390 2.5 0.622 2.5 -1.939 6.032 5.0 -0.852 5.0 -1.892 4.253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.147 2.074 50.0 -1.806 50.0 -1.147
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.236 1.2 1.272 1.2 -2.172 8.390 2.5 0.622 2.5 -1.932 5.6.032 5.0 -0.852 5.0 -1.892 5.454 7.5 -1.242 7.5 -1.892 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.236 1.2 1.272 1.2 -2.172 8.390 2.5 0.622 2.5 -1.939 6.032 5.0 -0.852 5.0 -1.892 5.454 7.5 -1.242 7.5 -1.892 6.254 7.5 -1.242 7.5 -1.892 7.5 -1.242 7.5 -1.892 7.5 -1.892 7.5 -1.242 7.5 -1.892 7.5 -1.242 7.5 -1.892 7.5 -1.242 7.5 -1.892 7.5 -1.242 7.5 -
2.5 - 4.592	8.390 2.5 0.622 2.5 -1.939 6.032 5.0 -0.852 5.0 -1.892 5.454 7.5 -1.242 7.5 -1.892 4.253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.102 2.074 50.0 -1.806 50.0 -1.147
5.0 -4.503 5.0 -6.724 5.0 -5.384 5.0 -5.166 5.0 -6 7.5 -4.458 7.5 -3.768 7.5 -4.784 7.5 -1.324 7.5 -5 10.0 -4.413 10.0 -3.029 10.0 -4.570 10.0 -2.709 10.0 -4 15.0 -4.369 15.0 -2.637 15.0 -3.627 15.0 -1.100 15.0 -3 20.0 -4.275 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.234 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -4.190 30.0 -2.072 40.0 -2.211 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.557 62.5 0.374 62.5 -0.37	6.032 5.0 -0.852 5.0 -1.892 6.454 7.5 -1.242 7.5 -1.892 6.4253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.100 2.074 50.0 -1.806 50.0 -1.147
7.5 -4.458 7.5 -3.768 7.5 -4.784 7.5 -1.324 7.5 -5 -5 10.0 -4.413 10.0 -3.029 10.0 -4.570 10.0 -2.709 10.0 -4 15.0 -3.627 15.0 -1.100 15.0 -3 20.0 -4.279 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.244 25.0 -2.681 25.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.244 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.555 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0.374	5.454 7.5 -1.242 7.5 -1.892 4.253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706. 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286. 2.296 40.0 -2.023 40.0 -1.102 2.074 50.0 -1.806 50.0 -1.147
10.0 -4.413 10.0 -3.029 10.0 -4.570 10.0 -2.709 10.0 -4 15.0 -4.369 15.0 -2.637 15.0 -3.627 15.0 -1.100 15.0 -3 20.0 -4.275 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.234 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463. 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -4.190 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0.3	4.253 10.0 -1.069 10.0 -1.613 3.230 15.0 -1.372 15.0 -1.706 2.919 20.0 -2.456 20.0 -1.519 2.875 25.0 -2.499 25.0 -1.473 2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.100 2.074 50.0 -1.806 50.0 -1.147
15.0 -4.369 15.0 -2.637 15.0 -3.627 15.0 -1.100 15.0 -3 20.0 -4.276 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.224 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -4.190 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -9.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0	3.230   15.0 -1.372   15.0 -1.706 2.919   20.0 -2.456   20.0 -1.519 2.875   25.0 -2.499   25.0 -1.473 2.741   30.0 -2.326   30.0 -1.286 2.296   40.0 -2.023   40.0 -1.100 2.074   50.0 -1.806   50.0 -1.147
20.0 -4.273 20.0 -2.637 20.0 -3.156 20.0 -1.279 20.0 -2 25.0 -4.234 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -4.100 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.912 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0	2.919
25.0 -4.234 25.0 -2.681 25.0 -3.156 25.0 -0.698 25.0 -2 30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.567 30.0 -2 40.0 -4.100 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.557 62.5 0.374 62.5 -0.3	2.875
30.0 -4.190 30.0 -2.463 30.0 -2.813 30.0 -1.547 30.0 -2 40.0 -4.100 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2 60.0 -4.011 60.0 -0.941 60.0 -1.442 60.0 -0.788 60.0 -1 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0	2.741 30.0 -2.326 30.0 -1.286 2.296 40.0 -2.023 40.0 -1.100 2.074 50.0 -1.806 50.0 -1.147
40.0 -4.100 40.0 -2.072 40.0 -2.171 40.0 -1.637 40.0 -2 50.0 -4.055 50.0 -1.59 50.0 -0.285 50.0 -1.459 50.0 -2 60.0 -2.072 60.	2.296 40.0 -2.023 40.0 -1.100 2.074 50.0 -1.806 50.0 -1.147
50.0 -4.055 50.0 -1.550 50.0 -0.285 50.0 -1.458 50.0 -2.60.0 -4.011 60.0 -0.941 60.0 -1.4422 60.0 -0.788 60.0 -1.458 61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1.62.5 -3.076 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0.60 61.5 -1.60 61.5	2.074 50.0 -1.806 50.0 -1.147
.60.0 -4.011	
61.5 -3.921 61.5 0.407 61.5 -0.371 61.5 0.016 61.5 -1 62.5 +3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0	1.451 60.0 -1.242 60.0 -0.914
62.5 -3.876 62.5 1.146 62.5 0.657 62.5 0.374 62.5 -0	
70.0 -3.187 70.0 -0.246 70.0 -0.028 70.0 0.285 70.0 -0	
75.0 -3.697 75.0 -0.593 75.0 -0.328 75.0 0.106 75.0 -0	
75.6 -3.474 75.6 -0.811 75.6 -0.500 75.6 0.151 75.6 -1	
76.3 -3.384 76.3 0.059 76.3 0.272 76.3 0.240 76.3 =0	
77.1 -3.339 77.1 0.450 77.1 0.315 77.1 -2.128 77.1 -0	
78.6 -3.250 78.6 -0.593 78.6 0.443 78.6 -0.832 78.6 -0	
80-0 -3-161 80-0 0-407 80-0 0-529 80-0 0-553 80-0 -0	
85.0 -3.026 85.0 -0.289 85.0 -0.157 85.0 0.553 85.0 -0	
90.0 -2.937 90.0 0.189 90.0 0.272 90.0 0.463 90.0 -0	
95.0 -2.847 95.0 0.450 95.0 0.486 95.0 0.642 95.0 -0	
	4.642 2.5 -0.072 2.5 -0.028
5.0 -2.579 5.0 3.972 5.0 2.414 5.0 3.412 5.0 3	3.574 5.0 -0.072 5.0 0.018
$7.5 = 2.534 \dots 7.5  3.320 \dots 7.5  1.771  7.5  2.116 \dots 7.5  1$	1.128 7.5 -0.115 7.5 0.298
10.0 -2.489 10.0 2.842 10.0 1.429 10.0 1.714 10.0 1	1.929 10.0 -0.072 10.0 -1.100
15.0 -2.400 15.0 2.755 15.0 0.872 15.0 0.955 15.0 -0	0.251 15.0 -0.158 15.0 -0.448
20.0 -2.355 20.0 1.972 20.0 0.572 20.0 0.865 20.0 -0	0.117 20.0 -0.202 20.0 -0.075
30.0 -2.310 30.0 1.494 30.0 0.143 30.0 0.374 30.0 -0	0.162 30.0 -0.202 30.0 -0.121
50.0 -2.266 50.0 1.363 50.0 0.015 50.0 0.374 50.0 -0	0.162 50.0 -0.548 50.0 -0.215
65.0 -2.176 65.0 1.320 65.0 0.015 65.0 0.597 65.0 C	0.016 65.0 0.015 65.0 -0.075
70.0 -2.131 70.0 1.189 70.0 0.486 70.0 0.508 70.0 -0	0.028 70.0 -0.418 70.0 -0.308
76.8 -2.042 76.8 -1.115 76.8 0.143 76.8 0.285 76.8 -0	0.073 76.8 -0.202 76.8 -0.401
77.1 -1.952 77.1 0.537 77.1 0.615 77.1 0.419 77.1 0	0.061 77.1 -0.202 77.1 -0.075
80.0 -1.908 80.0 0.624 80.0 0.743 80.0 0.508 80.0 1	1.128 80.0 0.579 80.0 -0.121
85.0 -1.863 85.0 0.668 85.0 0.486 85.0 0.553 85.0 0	0.861 85.0 0.796 85.0 -0.354
	0.683 90.0 0.926 90.0 -0.448
95.0 -1.773 95.0 0.624 95.0 0.572 95.0 0.597 95.0 0	0.594 95.0 1.099 95.0 -0.634
TOTAL NORMAL COEFFICIENT	
N = 1.57 2.85 2.12 1.77 2.3	39 0.99 0.85

#### TABLE V-30

RUN	6. POI			Q =	4.64	AL	PHA = 2	4	TCP =	2.40			
VALVE	1	VALV		VALV	E 4	VALV	E 5	VALV	E 6	VALV	E 7	VAL	/E 8
100x	СP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
			13.508		-6.969		-5.792	. o	15-150	0	0.059		-5.946
1.2 -	5.935	1.2-	16.248	1.2	-8.855	1.2	-5.970	1.2-	17.952	1.2	-5.318	1.2	-5.993
2.5 -	6.024	2.5-	-11.204	2.5	-5.984	2.5	-3.826		12.659		-4.320		-4.781
5.0 -	5-801	5.0	-7.768	5.0	-3.970	5.0	-2.709				-4.884		
7.5 -	5.711	7.5	-5.681	7.5	-3.028		-0.788		-6.922		-4.364		-3.290
10.0 -	4.458		-4.637		-2.856	10.0	-1.771		-4.965		-3.670		-2.731
-15-0	4-234		-3.985				-0.520		-3.853		-3-063		-2.731
20.0 -	4.055		-3.637		-2.213		-0.520		-3.275		-3.757		-2.451
25.0 -			-3.376		-2.470		-0.564		-3.008		-3.887		-2.265
30.0.			-2.985								-3.713		-2.172
40.0 -			-2.550		-2.299		-1.771		-2.341		-3.236		-1.799
50.0 -	2.400	50-0	-1.637	50.0	0.100		-1.949		-2.519		-2.846		-1.706
			-0.985						-2.163		-2.153		-1.519
61.5 -			0.102	61.5	0.015		-0.162		-0.740		-0.028		-0.820 -1.799
62.5	0.106	62.5	1.276	62.5	0.829	62.5	0.016		0.061	62.5			
			0.755							70.0	-0.115	70.0	0.112
70.0			-0.985		-1.142		-1.011		-0.962 -1.763		-0.939		-3.104
75.0 -			-1.289		-1.485		-1.592						
75.6	0.017		-1.028		-1.442		-1.190		-2.563		0.535		-1.566
			0.015								-0.072		-0.448
77.1	0.151	77.1			0.229 0.229		-2.754		-0.517 -0.295		-0.115 0.232		-0.634
78.6			-0.420 -0.189	78.6	-0.200		-0.252		-0.784		0.492		-0.448
85.0	0.285		-1.115		-1.399		-1.681		-1.096		-0.679		-1.566
90.0	0.330		-1.028		-1.014		-1.279		-0.962		-0.028		-1.240
			-0.159.								0.449		
2.5	0.956	2.5		2.5	1.086		0.061		5.931		0.102		-0.028
5.0	0.777	5.0		5.0	1.172	5.0		5.0		5.0		5.0	0.391
	0.777				1.129		0.374	7.5			0.102		0.624
10.0	0.688	10.0	4.494	10.0	1.129	10.0	0.553	10.0	3.886	10.0	0.102	10.0	-1.286
15.0	0.643	15.0	3.668	15.0	1.000	15.0	0.374	15.0	0.061	15.0	0.102	15.0	-0.075
20.0	0.598	20+0	2.059	- 20-0	0.743	20.0	0.374	20.0	0.328	20.0	0.015	20+0	0.251
30.0	0.554	30.0	1.494	30.0	0.743	30.0	0.374	30.0	0.506	30.0	0.015	30.0	
50.0	0.464	50.0	1.494	50.0	0.572	50.0	0.419	50.0	0.239	50.0	-0.375	50.0	0.018
-65-0-	0.464	-65-0	0.972	65.0	0.315	65.0	0.419	65-0	0.772		0.102		0.065
	0.419	70.0	0.755	70.0	0.572	70.0	0.374	70.0	0.461		-0.245		-0.075
768	0.330	76.8	0.059	76.8	0.315		-0.475		-0.651		-0.115		-0.634
77.1	0.554	7.7 <b>.</b> E	0.928	77.1	1.000	77.1	0.016	77.1	0.817		-0.072		-0.121
80.0	0.777	80.0	0.363	80.0	0.572	80.0	0.508	80.0	1.706	80.0			0.438
85.0	0.598	85.0	0.711	85.0	0.400	85.0		85.0	0.772		0.796		-0.075
90.0					0.229		0.285		0.506		0.882		-0.121
95.0	0.509	95.0		95.0	-0.028	95.0	-0.475	95.0	0.372	95.0	0.882	95.0	-0.261
TOTAL				_		_							
N = 2			4.90		-20-	1	- 78		3.9		2.34		1.74

RUN 38, POI	NT 3	Q = 8.24	ALPHA =	O TCP =	0.	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	700X Cb	100X CP	100X CP	100X CP	100X CP	TOOX Cb
01.148	01.758	01.603	01.735	01.914	0. 0.289	0. 0.148
1.2 -0.537	1.2 -0.808	1.2 -0.537	1.2 -0.706.	1.2 -0.908	1.2 -0.614	1.2 0.098
2.5 -0.664	2.5 -0.735	2.5 -0.755	2.5 -0.681	2.5 -0.808	2.5 -0.638	2.5 0.047
5.0 -0.6.3	5.0 -0.905	5.0 -0.925	5.0 -0.932	5.0 -0.908	5.0 -0.760	5.0 -0.00
7.5 -0.7.5	7.5 -1.003	7.5 -1.118	7.5 -0.329	7.5 -1.009	7.5 -0.858	7.5 -0.05
10.0 -0.944	10.0 -0.442	10.0 -1.239	10.0 -1.158	10.0 -1.034	10.0 -0.882	10.0 -0.079
15.0 -0.969	45.0 -1.124	45.0 -1.264	15.0 -0.329	15.0 -1.135	15.0 -0.980	15.0 -0.154
20.0 -0.969	20.0 -1.149	20.0 -2.264	20.0 -1.057	20.0 -1.135	20.0 -1.151	20.0 -0.205
25.0 -0.995	25.0 -1.197	25.0 -1.336	25.0 -0.380	25.0 -1.185	25.0 -1.175	25.0 -0.280
30.0 -1.046	30.0 -1.246	30.0 - 3.361	30.0 -1.384	30.0 -1.210	30-0 -1-200	30.0 -0.38
40.0 -1.148	40.7 -1.246	40.0 -1.361	40.0 -1.359	40.0 -1.210	40.0 -1.175	40.0 -0.532
50.0 -1.122	50.0 -1.149	50.C 0.117	50.0 -1.283	50.0 -1.235	50.0 -1.175	50-0 -0-734
60-0 -1-046	60.0 -1.027	60.0 -1.191	60.0 -1.208	_60.0 -1.160	60.0 -1.151	60.0 -0.860
61.5 -0.206	61.5 -0.004	61.5 -0.270	6: .5 -0.104	61.5 0.098	61.5 -0.004	61.5 -0.230
62.5 -0.079	62.5 -0.321	62.5 -0.440	62.5 -0.229	62.5 -0.154	62.5 -0.101	62.5 -0.331
65.0 -0.893	65.3 -1.392	65.0 -1.579	65.0 -1.183	65.0 -1.059	65.0 -0.785	65.0 -1.162
70.0 -1.402	70.0 -1.636	70.0 -1.676	70.0 -1.660	70.0 -1.462	70.0 -1.541	70.0 -1.212
75.0 -1.074	75.0 -1.173	75.0 -1.288	75.0 -1.208	75.0 -1.10	75.0 -1.224	75-0 -1-263
75.6 -0.359	75.6 -0.321	75.6 -0.488	75.6 -0.430	75.6 -0.481	75.6 -0.297	75.6 -0.734
76.3 -0.461	76.3 -0.442	76.3 -0.561	76.3 -0.430	76.3 -0.531	76.3 0.216	76.3 -0.860
77.1 0.099	77.1 -0.686	77.1 -0.537	77.1 -0.505	77.1 -0.758	77.1 0.240	77.1 -0.935
78.6 0.604	78.6 0.703	78.5 0.650	78.6 0.675	78.6 0.676	78.6 0.533	78.6 0.299
80.0 -0.486	80.0 -0.735	80.0 -0.828	80.0 -1.032	80.0 -0.883	80.0 -0.785	80.0 0.098
85.0 -0.486	85.0 -0.783	85.0 -0.828	85.0 -0.907	85.0 -0.682	85.0 -0.736	85.0 0.022
90.0 -0.257	90.0 -0.223	90.0 -0.295	90.0 -0.254	90.0 -0.229	90.0 -0.199	90.0 -0.053
95.0 -3.079	95.0 -0.053	95.0 -0.125	95.0 -0.053	95.0 -0.053	95.0 -0.028	95.0 -0.079
2.5 -0.333	2.5 O.386	2.5 -0.392	2.5 -0.254	2.5 0.274	2.5 0.289	2.5 -0.154
5.0 0.144	5.0 3.733	5.0 0.335	5.0 0.449	5.0 0.802	5.0 0.289	5.0 -0.179
7.5 0.435	7.5 0.654	7.5 0.723	7.5 0.830	7.5 0.299	7.5 0.289	7.5 -0.179
10.0 0.557	10.0 0.532	10,0 0.674	10.0 0.725	10.0 0.701	10.0 0.289	10.0 0.224
15.0 0.557	15.0 0.508	15.0 0.529	15.0 0.399	15.0 0.399	15.0 0.289	15.0 0.224
20.0 0.379	20.0 0.386	20.0 0.384	20.0 0.348	20.0 0.374	20.0 0.289	20.0 0.199
30.0 0.175	30.0 0.142	30.0 0.263	30.0 0.248	30.0 0.274	30.0 0.289	30.0 0.098
50.0 0.100	50.0 0.215	50.0 0.238	50.0 0.298	50.0 0.274	50.0 0.240	50.0 0.148
65.0 0.857	65.0 0.824	65.0 6.795	65.0 0.875	65.0 0.852	65.0 0.606	65.0 0.577
70.0 0.557	70.0 0.678	70.0 0.674	70.0 0.675	70.0 0.676	70.0 0,558	70.0 0.526
76.8 0.099	76.8 0.751	76.8 0.020	75.8 0.725	76.8 0.726	76.8 0.240	76.8 0.526
77.1 3.837	77.1 0.776	77-1 0-771	77-1 0.825	77.1 0.751	77.1 0.265	77-1 0.551
80.0 0.868	80.0 0.849	80.0 0.868	80.0 0.951	80.0 0.953	80.0 0.704	80.0 0.778
85.0 0.633	85.0 0.703	85.0 0.747	85.0 0.750	85.0 0.777	85.0 0.655	85.0 0.627
90.0 0.536	90.0 0.556	90.0 0.626	90.0 0.599	90.0 0.653	90.0 0.582	90.0 0.526
95.0 0.404	95.0 0.435	95.0 0.481	95.0 0.499	95.0 0.525	95.0 0.484	95.0 0.375
TOTAL NORMAL		1.33	1,45			
= 17	1.44			50	1.33	0.74

		TABLE	V-32			
RUN 38, POINT	6 Q	= 8.12	ALPHA = 12	? TCP =	0.	
	LVE 3 V	ALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP 100	X CP 10	OX CP	100X CP	LOOX CP	100X CP	100X CP
0. 0.049 0.	-0.869 0	-0.127	00.181	00.870	0. 0.418	01.537
	2 -1.561 1	.2 -1.012	1.2 -1.149	1.2 -1.508	1.2 -1.418	1.2 -1.332
2.5 -1.577 2.		.5 -1.823	2.5 -1.735	2.5 -1.840	2.5 -1.514	2.5 -1.332
		0 -2.388	5.0 -2.3?1	5.0 -2.246	5.0 -2.282	5.0 -1.665
		·5 -2·536	7.5 -0.716	7.5 -2.402	7.5 -2.430	7.5 -1.792
			10.0 -2.474	10.0 -2.197	10.0 -2.257	10.0 -1.767
			15.0 -0.512	15.0 -2.044	15.0 -2.059	15.0 -1.844
			20.0 -2.056	20.0 -1.968	20.0 -2.430	20.0 -1.792
		0 -2.24%	25.0 -0.640	25.0 -1.968	25.0 -2.109	25.0 -1.767
		0 -2.142	30.0 -2.091	30.0 -1.968	30.0 -1.985	30.0 -1.690
			40.0 -1.888	40.0 -1.815	40.0 -1.811	40.0 -1.588
	0 -1.487 50		5).0 -1.684	50.0 -1.764	50.0 -1.737	50.0 -1.588
			60.0 -1.455	60.0 -1.585	60.0 -1.688	60.0 -1.665
			61.5 0.048	61.5 0.099	61.5 -0.003	61.5 -0.693
			62.5 -0.232	62.5 -0.207	62.5 0.021	62.5 -0.693
			65.0 -1.047	65.0 -1.304	65.0 -1.093	65.0 -2.355
			73.0 -1.862	70.0 -1.917	70.0 -2.257	70.0 -2.815
			75.0 -1.302	75.0 -3.457	75.0 -1.762	75.0 -2.329
		.6 -0.397	75.6 -0.359	75.6 -0.717	75.6 -0.548	75.6 -1.102
		.3 -0.520	76.3 -0.385	76.3 -0.845	76.3 0.343	76.3 -1.153
		.1 -0.495	77.1 -0.741	77.1 -1.100	77.1 0.343	77.1 -1.230
78.6 0.927 78.		.6 J.857	78.6 0.685	78.6 D.661	78.6 0.814	78.6 0.176
		0 -0.815	80.0 -0.971	80.0 -1.304	80.0 -1.143	80.0 -0.028
		.0 -0.839	85.0 -0.894	85.0 -1.049	85.0 -1.192	85.0 -0.054
		-0-225	90.0 -0.207	90.0 -0.437	90.0 -0.375	90-0 -0-079
		0 -0.053	95.0 -0.028	95.0 -0.181	95.0 -0.078	95.0 -0.405
		.5 1.029	2.5 0.940	2.5 1.120	2.5 0.418	2.5 0.867
5.0 3.082 5. 7.5 1.030 7.		•0 3•004 •5 0•955	5.0 0.940 7.5 0.914	5.0 1.069 7.5 0.355	5.0 0.418	5.0 0.816 7.5 0.713
10.0 0.953 10.			10.0 0.838	7.5 0.355	7.5 0.418 10.0 0.442	7.5 0.713 10.0 -0.003
15.0 0.746 15.			15.0 0.583	15.D 0.406	15.0 0.442	15.0 0.406
20.0 0.643 20.			20.0 0.583	20.0 0.431	20.0 0.467	20.0 0.304
30.0 0.514 30.			30.0 0.558	30.0 0.431	30.0 0.442	30.0 0.202
50.0 0.385 50.			50.0 0.532	50.0 0.380	50.0 0.418	50.0 0.279
65.0 1.108 65.			65.0 0.889	65.0 0.967	65.0 1.210	65.0 0.867
70.0 0.746 70.			70.0 0.736	70.0 0.686	70.0 0.913	70.0 0.662
76.8 0.282 76.			76.8 0.787	76.8 0.788	76.8 0.393	76.8 0.637
77.1 1.082 77.			77.1 0.812	77-1 0-865	77.1 0.393	77.1 0.662
80.0 1.056 80.			80.0 0.940	80.0 1.044	80.0 1.185	80.0 1.071
85.0 0.772 85.			85.0 0.787	85.0 0.839	85.0 0.962	85.0 0.713
90.0 0.617 90.			90.0 0.685	90.0 0.661	90.0 0.839	90.0 0.509
95.0 0.488 95.			95.0 0.558	95.0 0.533	95.0 0.665	95.0 0.279
TOTAL NORMAL COEF						
N = 2.09	2.22	2.04	2.04	2.19	2.23	1.90

RUN 38	, POI	NT 9		Q ±	8.06	AL	PHA = 2	o	TCP =	0.			
VALVE	1	VALV	= 3	VALV	F 4	VALV	E 5	VAL	VE 6	VALV	E 7	VALV	E 8
	ĈP		CP	100x	CP	130X	CP	100X	CP	130X	CP	100X	CP
	.102		0.701	0.	0.071		-0.285		-0.851	0.	0.421	0.	0.951
1.2 -1			-2.145		-1.343		-1.671	1.2	-2.059	1.2	-1.500	¥.2	0.899
2.5 -2			2.593		-2.480		-2.492	2.5	-2.445	2.5	-2.099	2.5	0.848
5.0 -2			-2.942	5.0	-3.274	5.0	-3.108	5.0	-2.574		-3.197	5.0	0.796
7.5 -2			-2,937		-3.248	7.5	-0.926	7.5	-2.728	7.5	-3.247	7.5	0.745
10.0 -2	684	10.0	-2.444	10.0	-3.322		-3.133		-2.599		-2.972	10.0	0.693
15.0 -2	-603		-2.643	15.0	-2.975		-0.593		-2.548		-2.648	15.0	0.616
20.0 -2	.551		-2.394	20.0	-2.703		-2.492		-2.933		-2.972	20.0	0.539
25.0 -2	0424		-2.270	25.0	-2,604		-0.747		-2.651		-2.773	25.0	0.461
30.0 -2			-2.145		-2,406		-2.339		-2.496		-2.523	30.0	0.358
40.0 -2			-1.896		-2.010		-2.030		-2.394		-2-249	40.0	0.255
50.0 -1			-1.572		0.442		-1.696		-2.265		-2.099	50.0	0.178
60.0 -			-1.871	60.0	-1.589		-1.440		-2.931		-2.024	60.0	0.101
	254	61.5	0.121		0.096		0.151	61.5		61.5	0.122	61.5	
	070		-0.252		-0.177		-0.105		-0.337	62.5	0.146		-0.002
65.0 -0			-1.547		-1.415		-0.541		-1.468		-1.201		-0.054
70.0 -3			-1.747		-1.489		-1.440		-2.188		-2.498		-0.080
75.0 -0			-1.174		- 3.044		-1.003		699		-1,949		-0.131
75.6 -0			-0.277		-0.226		-0.310		-0.954		-0.627		-0.930
76.3 -0			-0.452		-0.301		-0.285		-1.057	76.3	0.396		-1.110
77.1			-0.701		-0.301		-1.311		-1.339	77.1 78.6	0.396		0.075
	856	78.6	0.893		0.888		0.655		0.553		-1.301		-0.363
80.0 -0			-0.701		-0.598	80.0	-0.849 -0.747		-1.468 -1.34		-1,276		-1.600
85.0 -0			-0.750		-0.647						-0.477		-1.754
90.0 -0			-0.203		-0.202		-0.259 -0.157		-0.491 -0.208		-0.203		-1.213
95.0 -0			-0.003		0.938	2.5	0.921	2.5		2.5	0.421		0.899
	986	2.5 5.0	1.366	2.5 5.0	0.938	5.0	0.973	5.0		5.0	0.421	5.0	
	986		1.292	7.5	0.938	7.5	0.973	7.5		7.5	0.421		0.770
	960	7.5 10.0	1.192	10.0	0.938	10.0	0.947	10.0		10.0	0.446		-0.312
	3.856	15.0	1.192	15.0	0.888	15.0	0.690	5.0		15.0	0.471	15.0	0.513
	0.830	20.0	0.943	20.0	0.814	20.0	0.716	20.0		20.0	0.496	20.0	0.410
	0.730	30.0	0.694	30.0	0.715	3).0	0.716	30.0		30.0	0.471	30.0	
	0.570	50.0	0.694	50.0	0.641	50.0	0.639	50.0		50.0	0.546	50.0	0.332
	986	65.0	1.043	65.0	1.012	65.0	0.921	65.0		65.0	1.294	65.0	0.925
	7.778	70.0	0.868	70.0	0.863	70.0	0.767	70.0		70.0	0,995	70.0	0.642
	0.440	76.8	0.868	76.8	0.170	76.8	0.767	76.8	0.717	76.8	0.446	76.8	0.564
	1.0.2	77.3	0.968	77.1	0.962	77.1	0.819	77.1		77.3	0.446	77.1	0.642
	.038	80.0	J. 993	80.0	0.987	80.0	0.947	80.0		80.0	1.244	80.0	1.131
	0.778	85.0	0.868	85.0	0.839	85.0	0.819	85.0		85.0	1.045	85.0	0.667
	0.674	90.0	0.744	90.0	0.740	90.0	0.716	90.0		90.0	0.895	90.0	0.410
	0.5.8	95.0		95.0	0.616	95.0		95.0		95.0	0.720	95.0	0.204
TOTAL N													
N = 2.			.53		2.21		2.19		2.59		2.67		0.46

RUN 40, POINT 3 Q = 4.82 ALPHA = 0 TCP = 1.00	
VALVE 1 VALVE 3 VALVE 4 VALVE 5 VALVE 6 VALVE 7 100X CP 100X CP 100X CP 100X CP 100X CP	VALVE 8
3000 01 2000 01 2000 0	01.579
	1.2 -1.148
1.2 -0.637 1.2 -1.236 1.2 -0.732 1.2 -1.058 1.2 -1.490 1.2 -0.988 2.5 -0.724 2.5 -1.028 2.5 -1.015 2.5 -1.015 2.5 -1.275 2.5 -0.988	2.5 -1.019
5.0 -0.724 5.0 -1.444 5.0 -1.519 5.0 -1.573 5.0 -1.705 5.0 0.347	5.0 -0.976
7.5 -0.814 7.5 -4.569 7.5 -1.768 7.5 -0.500 7.5 -1.920 7.5 0.097	7.5 -3.804
10.0 -3.072 10.0 -0.403 10.0 -2.058 10.0 -2.045 10.0 -2.006 10.0 -0.529	10.0 -0.588
15.0 -1.376 15.0 -1.777 15.0 -2.058 15.0 -0.457 15.0 -1.920 15.0 -0.821	15.0 -0.804
20.0 -1.333 20.0 -1.736 20.0 -2.099 20.0 -1.745 20.0 -1.920 20.0 -1.405	20.0 -1.019
25.0 -1.594 25.0 -1.861 25.0 -2.182 25.0 -0.500 25.0 -2.178 25.0 -1.614	25.0 -1.148
30.0 -1.594 30.0 -1.985 30.0 -2.182 30.0 -2.303 30.0 -2.221 30.0 -1.781	30.0 -1.277
40.0 -1.594 40.0 -1.985 40.0 -2.140 40.0 -2.217 40.0 -2.221 40.0 -1.822	40.0 -1.277
50.0 -1.594 50.0 -1.819 50.0 0.303 50.0 -2.088 50.0 -2.307 50.0 -1.947	50.0 -1.277
60.0 -1.507 60.0 -2.152 60.0 -1.850 60.0 -2.002 60.0 -2.264 60.0 -1.989	60.0 -1.277
61.5 -0.159 61.5 0.222 61.5 -0.649 61.5 -0.028 61.5 -0.071 61.5 0.264	61.5 -0.114
62.5 -0.333 62.5 -0.111 62.5 -0.649 62.5 -0.157 62.5 -0.157 62.5 -0.195	62.5 -3.647
65.0 -1.594 65.0 -2.693 65.0 -2.886 65.0 -1.058 65.0 -1.877 65.0 -1.572	
70.0 -2.551 70.0 -3.276 73.0 -3.259 73.0 -3.289 70.0 -2.952 70.0 -3.199	
75.0 -1.942 75.0 -2.235 75.0 -2.472 75.0 -2.388 75.0 -2.221 75.0 -2.531	75.0 -6.920
75.6 -0.594 75.6 -0.445 75.6 -0.898 75.6 -0.715 75.6 -1.189 75.6 -0.571	75.6 -0.847
76.3 -0.811 76.3 -0.819 76.3 -1.105 76.3 -0.715 76.3 -1.318 76.3 0.431	76.3 -1.062
77-1 0-233 77-1 -1-444 77-1 -1-022 77-1 -4-105 77-1 -1-834 77-1 0-431	77.1 -1.148
78.6 1.277 78.6 2.054 78.6 2.001 78.6 1.989 78.6 1.735 78.6 1.182	78.6 0.446
80.0 0.363 80.0 -1.569 80.0 -1.768 80.0 -1.959 80.0 -2.135 80.0 -1.572	80.0 -1.665
85.0 0.189 85.0 -1.777 85.0 -1.850 85.0 -1.916 85.0 -1.705 85.0 -1.405	85.0 -1.708
90.0 -0.376 90.0 -0.403 90.0 -0.484 90.0 -0.371 90.0 -0.630 90.0 -0.237	
95.0 -0.028 95.0 0.097 95.0 -0.028 95.0 0.058 95.0 -0.200 95.0 0.180	
2.5 -0.420 2.5 2.387 2.5 0.096 2.5 0.035 2.5 2.121 2.5 0.472 5.0 -0.202 5.0 2.096 5.0 1.380 5.0 1.560 5.0 2.379 5.0 0.472	
The state was asset with the state of the first first	20.0 0.230
20.0 0.494 23.3 1.055 23.0 J.842 20.0 0.701 20.0 0.445 20.0 0.431 30.0 0.407 30.0 0.263 30.0 0.552 30.0 0.444 30.0 0.316 30.0 0.472	
50.0 0.320 50.0 0.596 50.0 0.552 50.0 0.701 50.0 0.359 50.0 0.514	
65.0 1.363 65.0 2.387 65.0 2.250 65.0 2.375 65.0 2.293 65.0 1.307	
70.0 4.0.6 70.0 1.929 70.0 3.794 70.0 1.688 70.0 1.692 70.0 1.182	
76.8 0.233 76.8 2.221 76.8 0.179 76.8 2.074 76.8 1.949 76.8 0.431	
77.1 1.450 77.1 2.262 77.1 2.291 77.1 2.203 77.1 2.164 77.1 0.473	
80.0 1.668 80.0 2.512 80.0 2.332 80.0 2.375 80.0 2.551 80.0 1.599	
85.0 1.320 85.0 2.054 85.0 1.918 85.0 1.860 85.0 2.121 85.0 1.55	
90.0 2.059 90.0 1.638 90.0 1.587 90.0 1.474 90.0 1.821 90.0 1.599	
95.0 0.842 95.0 1.304 95.0 1.256 95.0 1.130 95.0 1.434 95.0 1.30	
TOTAL NORMAL COEFFICIENT	
t = 1.72 3.02 2.57 2.88 3.05 2.23	2.76

RUN 40, POI	NT 6	Q = 4.82	ALPHA = 1	2 TCP =	= 1.00			
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE B		
100X CP	100X CP	100X CP	100X CP	COOX CP	100X CP	100X CP		
02.594	J2.818	05.726	00.028	03.726	0, 0,556	0. 15.09		
1.2463	1.2 -2.277	1.2726	1.2 -1.520	1.2 -2.350	1.2 -1.572	L.2 15.86		
2.5 - 2.768	2.5 -2.610	2.5 -2.720	5 -2.388	2.5 -2.565	2.5 -1.822	2.5 15.86		
5.0898	5.0 -3.318	5.0 -3.631	5.0 -3.332	5.0 -2.909	5,0 -2.573	5.0 15.47		
7.5 -2.333	7.5 -3.235	7.5 -3.838	7.5 -1.015	7.5 -3.296	7.5 -2.907	7.5 15.30		
10.0 -2.681	13.0 -2.069	10.0 -4.087	10.0 -3.804	10.0 -3.038	10.0 -2.824	10.0 15.26		
15.0 -2.8.2	25.0 -3.068	15.0 -3.714	15.0 -0.715	5.0 -2.823	15.0 -2.698	15.0 15.13		
20.0 -2.812	20.0 -2.902	20.0 -3.466	23.0 -3.204	20.0 -2.909	20,0 -3,157	20.0 15.22		
25.0 -2.768	25.0 -2.985	25.0 -3.466	25.0 -0.885	25.0 -3.2.0	25.0 -3.157	25.0 15.17		
30.0 -2.708	30.0 -3.027	30.0 -3.259	30.0 -3.289	30.0 -3.382	30.0 -3.157	30.0 15.22		
40.0 -2.3:3	40.0 -2.777	40.0 -2.927	40.0 -2.946	40.0 -3.253	40.0 -2.949	40.0 15.35		
50.0 -2.203	53.0 -2.444	50.0 0.427	50.0 -2.603	50.0 -3.253	50.0 -2.949	50.0 15.30		
60.0 -1.942	60.0 -2.277	60.0 -2.389		60.0 -2.909	60.0 -2.949	60.0 15.22		
61.5 -0.202	6.05 0.013	61.5 -0.567	65 0.272	61.5 -0.243	61.5 0.139	61.5 16.42		
62.5 -0.159	62.5 -0.944	62.5 -0.525	62.5 -0.243	62.5 -0.458	62.5 0.097	62.5 13.32		
65.0 -1.8.1	65,7 -3,526	65.0 -2.927	65.0 -2.333	65.0 -2.479	65.0 -2.073	65.0 14.23		
70.0 -2.768	70.0 -3.443	70.0 -3.259	70.0 -3.075	70.0 -3.855	70.0 -4.409	70.0 13.62		
75.0 -2.029	75.0 -2.402	75.0 -2.389	75.0 -2.989	75.0 -2.952	75.0 -3.616	75.0 12.21		
75.6 -3.1.5	75.6 -0.861	75.6 -0.815	75.6 -0.672	75.6 -1.963	75.6 -0.904	75.6 14.79		
76.3 -C.985	76.3 -1.028	76.3 -0.857	76.3 -0.672	76.3 -2.178	76.5 0.431	76.3 14.57		
77.1 3.437	77.1 -1.569	77.1 -0.815	77.1 -4.148	77.1 -2.737	77.1 0.431	77.1 14.44		
78.6 2.190	78.6 2.512	78.6 2.250	78.6 2.032	78.6 1.863	78.6 1.974	78.6 17.97		
80.0 -0.627	80.0 -1.777	80.0 -1.561	80.0 -1.873	80.0 -3.167	80.0 -2.531	80.0 13.32		
85.0 -3.768	85.0 -1.902	85.0 -1.643	85.0 -1.745	85.0 -2.651	85.0 -2.573	85.0 42.50		
90.0 -0.376	90.9 -0.486	90.0 -0.484	90.0 -0.457	90.0 -1.017	90.0 -0.737	90.0 14.44		
95.0 -0.1.5	95.3 -3.073	95,0 -0.194	95.0 -0.114	95.0 -0.458	95.0 -0.112	95.0 15.56		
2.5 2.581	2.5 3.262	2,5 2,332	2.5 1.002	2.5 3.496	2.5 0.514	2.5 18.32		
5.0 2.277	5.0 2.929	5.0 Z.084	5.0 1.002	5.0 2.852	5.0 0.514	5.0 18.32		
7.5668	7.5 2.429	7.5 3.670	7.5 1.002	7.5 1.004	7.5 0.514	7.5 18.19		
10.0 1.190	10.0 2.096	10.0 1.463	13.0 0.959	10.0 2.336	10.0 0.556	10.0 14.53		
15.0 0.844	15.0 2.054	15.0 1.090	15.0 0.701	15.0 3.402	15.0 0.556	15.0 17.89		
20.0 0.7.4	20.0 1.388	20.0 0.924	20.0 0.701	20.0 0.574	20.0 0.556	20.0 17.67		
30.0 0.583	30.0 0.596	30.0 0.717	30.0 0.615	30.0 0.574	30.0 0.556	30.0 17.46		
50.0 0.494	50.0 0.888	50.0 0.717	50.0 0.744	50.0 0.445	50.0 0.556	50.0 17.41		
65.0 2.538	65.0 2.970	65.0 2.457	65.0 2.461	65.0 2.723	65.0 2.600	65.0 18.45		
70.0 3.437	70.0 2.137	70.0 1.753	70.0 2.388	70.0 1.906	70.0 2.058	70.0 18.15		
76.8 0.450	76.8 2.429	75.8 0.303	76.8 2.032	76.8 2.207	76.8 0.514	76.8 18.27		
77.1 2.668	77. 2.887	77-1 2-540	77.1 2.203	77.1 2.594	77.1 0.514	77.1 18.70		
80.0 2.538	80.0 2.970	80.0 2.374	80.0 2.203	80.0 3.067	80.0 2.934	80.0 19.22		
85.0 1. 4	85.0 2.262	85.0 1.670	85.0 1.57	85.0 2.250	85.0 2.266	85.0 18.49		
90.0 4 3	90.0 1.804	90.0 1.297	90.0 1.045	90.0 1.821	90.0 1.933			
	95.0 1.429	95.0 0.966	95.0 0.787	95.0 1.305	95.0 1.474	95.0 17.80		
	COEFFICIENT	5 '95	2 40		2 24			
- 4.8	4.04	3.33	3.40	4.14	3.76	3.27		

					TABLE V	-36							
RUN	40, 201	NT 7		Q =	482	A	LPHA = 1	6	TCP =	1.00			
VAL		VALV		VALV		VAL	VE 5	VAL	/E 6	VAL	/E 7	VAL	VE 8
100X	CP	120X	CP .	700X	CP	100X	CP	" 00 X	CP	100X	CP	T00X	CP
٥.	2.885		-2.319		-0.277	O.		0.	-2.995	0.	0.514	0.	-0.674
	376		-2.527		-2.058		-1.830		-2.694		-1,947		-0.847
	-2.029		-2,860		-3,217		-2.817		-2.865		-2.198		-0.976
	942		-3.443		-4.128		-3.804		-3.296		-3.241		-1.191
	-2.594		-3,401		-4.294		-1.101		-3.554		-3.533		-1.579
	-2.986		-2.194		-4.418		-4.019		-3.253		-3.408		-1.794
	-3.073		-3,360		-3.921		-0.758		-3.24		-3.199		-1.967
	-3.C73		-3,360 -3,401		-3,631		-3.375 -0.886		-3.210		-3.658		-2.053
	-2.942		-3.235		-3,590 -3,341		-3.332		-3.683 -3.769		-3.575		-2.139 -2.139
	-2.296		-2.860		-2,886		-2.989		-3.511		-3.449 -3.241		-2.139
	-2.072		-2.444	50.0			-2.603		-3.511		-3,157		-2.139
	-4.841		-2.402		-2.389		-2.260		-3.124		-3.157		-2.139
	-0.1.5		-0.361		-0.401		0.401		-0.501		0.055		-1.019
	-0.072		-0.611		-0.318		-0.073		-0.716		-0.237		-4.077
	-1.507		-3.401		-2.555		-2.002		-2.694		-2.323		-3.733
	-2.290		-3.443		-2.803		-2.131		-4.070		-4.743		-4.594
	637		-2.402		-1.975		-1.959		-3.425		-3.950		-6.102
75.6	-0.943		-0.944		-0.857		-0.586		-2.307		-1.113		-3.087
76.3	-0.768		-0.944		-0.815		-0.586		-2,350	76.3			-3.302
77.1	0.450	77	-1.402	77.1	-0.69.		-4.234		-2.860	77.3			-3.474
78.6	2.059	78.6	2.387	78.6	2.208	78.6	1.774	78.6	1.735	78.6	2,266		0.575
80.0	-0.333	80.0	-1.819	80.0	-1.312	80.0	-1.702	80.0	-3.382	80.0	-2.740	80.0	-0.416
	-0.453	85.0	-1.777		-1.395	85.0	-1.573	85.0	-2.780	85.0	-2.824	85.0	-0.588
	-0.420		-0.445		-0.442		-0.4:4	90.0	-10:46	90.0	-0.863	90.0	-0.804
	-0.289		-3.028		-0.194		-0.134		-0.544	95.0	-0.153	95.0	-1.019
2.5		2.5	3.387	2.5	1.877	2.5	0.873	2.5	3,196	2.5		2.5	
5.0	3.581	5.0	3.012	5,0	1.504	5.0	0.830	5.0	2.852	5.0	0.472	5.0	0.833
7.5	3.246	7.5	2,595	7.5	1.256	7.5	0,873	7.5	0.961	7.5	0.472	7.5	0.793
10.0	0.885	10.0	2.262	10.0	1.173	10.0	0.916	10.0	221	10.0	0.514	10.0	0.316
15.0	0.755	15.0	2.221	15.0	1.049	15.0	0.744	15.0	0.316	15.0	0.556	15.0	0.445
30.0	0.668	20.0	1.554 0.721	20,0	0.883	20.0	0.830	20.0	0.53	20.5	0.556	20.0	0.316
50.0	0.537	30.0 50.0	0.721	30.0	0.759	30.0	0.744	30.0	0.531	30.0	0.556	30.0	0.101
65.0	2.494	65.0	2.845	50.0 65.0	0.759 2.498	50.0	0.744	50.0	0.359	50.0	0.556	50.0	0.101
70.0	1.407	70.0	1.804	70.0	1.546	70.0	2.117	65.0	2.594	65.0	2.976	65.0	1.307
76.8	0.450	76.8	2.262	76.8	0.303	76.8	1.860	70.0 76.8	1.821	70.0 76.8	2.183 0.472	70.0	0.963
77.1	2.668	77.2	2.845	77.1	2.581	77.1	2.074	77.1	2.465	77.1	0.514	76.8 77.1	1.393
80.0	2.494	80.0	2.595	80.0	2.167	80.0	1.989	80.0	2.895	80.0	2.767	80.0	1.953
85.0	1.363	85.0	1.679	85.0	1.421	85.0	1.388	85.0	1.906	85.0	2.433	85.0	1.092
90.0	1.016	90.0	1.263	90.0	. 049	93.0	0.959	90.0	1.391	90.0	2.016	90.0	0.747
95.0	0.668	95.0	0.971	95.0	0.800	95.0	0.701	95.0	0.875	95.0	1.515	95.0	0.359
TOTAL	NORMAL												
= :	2.77	. 4	. 05	. 3	.22		3.25	4	÷. 23	. 4	. 11		2.69

TABLE V-37

RUN 39,	FOINT 3		Q = 4	. 64	AL	PHA =	0	TCP =	2.40			
VALVE 1	VAL	/E 3	VALVE	4	VALV	E K	VAL	/C 4	VALV	F 7	VALV	E A
	P _00X		100X	CP	100X	СP	100X	CP	700X	CP	100X	CP
00.		-7.036		3.083		-4.218		-7.62à	3.	0.622		-3.697
1.2 -0.		-1,499		0.889		-2.053		-2.351		-2,109		-1,550
2,5 -0		-1.196		1.319		-1.365		-1.815		-2.325		-1.192
5.0 -0.		-2.802		964		-1.990		-2.261	5.0	3.352		-0.789
7.5 -0.		-2.191		2.394		-0.652		-3.020	7.5	0.449		-0.744
10.0 -0.	807 10.0	-1.456	10.0 -			-2.836		-2.886		-0.332	20.0	-0.923
15.0	429 15.0	-2.408	15.0 -	2.868		-0.563	5.5.0	-2.842		-0.808	.5.0	-1.147
20.0 -2.	549 20.0	-2.451	20.0 -	868	20.0	-2.926		-2.886	20.0	-2.022	20.0	-1.415
25.0 -2.	001 25.0	-2.581	25.0 -	3.083	25.0	-0.786	25.0	-3.065	25.0	-2,282	25.0	-1,553
30.0 -2.	136 30.0	-2.797	30.0 -	3.083	30.0	-3.371	30.0	-3.244	30.0	-2,629	30.0	-1.639
40.0 -2.	001 40.0	-2.754	40.0 -	2.868		-3.149	40,0	-3.244		-2.672	40.0	-1.505
50.0 -2.	152 50.0	-2.537	50.0	J. 488		-2.970		-3.512		-2,932		-1.505
60.0 -2.			60.0 -			-2.926		-3.378		-3, .05		-1.550
61.5 -0.			61.5 -		61.5			-0.207		0.389		-0.073
62 <sub>0</sub> 5 -J			62.5 -		62.5	0.195		-0.162		-0,375		-3.429
65.0 -2.			65.9 -			-3,461		-3.065		-2.629		-2.131
70.0 -4			73.0 -			-5.244		-4.986		-5.286		-2.758
75.0 -3			75.0 -			-3.728		-3.780		-3,972		-6.743
75.6 -0	841 75.6		75.6 -			-0.920	75.6	-l.993	75.6	-0° 505		-0.834
76.3 -0.			76.3 -			-1.098		-2.261	76.3			-1.102
			77.L -			-3.461		-3.299	77.2	0.579		-1.326
78.6 2.				3.973		3.716		3.277	78.6	2.489		0.375
80.0 -2			80.0 -			-3.232		-3.646		-2.239		-2.042
85.0 -2			85.0 -			-3.238		-3.320		-2.022		-1.863
90.0 -0.			90.0 -			-0.474		-1.011		-0.245		-0.968
°95.0 -0.			95.0	0.187	95.0	0.284		-0.252	95.0	0.275		-0.431
2.5 -0.				5.574	2.5	2.373	2.5	4.572	2.5	0,622		-0.834
5.0 -0.		4.038	5.0	2.639	5.0	2.646	5.0	4.349	5.0	0.622	5.0	0.196
7.5 -0.		3.130	7.5	3.026	7.5	3.181	7.5	3.009	7.5	0.622		-2.042
	.333 10.0 .649 15.0		10.0	2.768	15.0	2.914	.0.0	0.552	15.0	0.665	15.0	0.375
	.649 15.0 .830 20.0		20.0	1.219	20.0	0.997	20.0	0.686	20.0	0.622	20.0	0.240
	604 30.0		30.0	0.703	30.0	0.551	30.0	0.463	30.0	0.665	30,0	0.196
	378 50.0		50.0	1.004	50.0	1.354	50.0	0.597	50.0	0.752	50.0	0.330
	005 65.0		65.0	4.317	65.0	4.251	65.0	4.483	65.0	1.879	65.0	0.598
	403 70.0		70.3	3,284	70.0	3.092	70.0	3.277	70.0	1.835	70.0	3.643
	333 76.8		76.8	0.273	76.8	3,939	76.8	3.813	76.8	0.579	76.8	0.553
	140 77.1		77.2	4,446	77.1	3.984	77.1	4.259	77.1	0.535	77.1	0.688
	231 80.0		80.0	4,446	80.0	4.251	80.0	5.152	83.0	1.835	80.0	1.001
	095 85.0		85.0	3.414	85.0	3.350	85.0	4.036	85.0	2.399	85.0	0.688
	643 90.0		90.0	2.768	90.0	2.672	90.0	3.455	90.0	2.486	90.0	0.643
	327 95.0		95.0	20209	95.0	2.067	95.0	2.830	95.0	2,095	95.0	0.509
	RMAL COEFF											
CN = 2.5		4.73	4.	00	4	. 66		3.08		3.24	ž	.07

RUN	39, POI	NT 6		Q = 4	.64	AL	PHA = 1	2	TCP =	2.40			
VALV	·c 1			VIA ( ) / C					· ·	VALV	- <del>-</del>		15 0
100X	CP CP	VALV	CP CP	VALVE	: 4 CP	VALV	CP	OOX	/E 6 CP	100X	CP	100X	/E 8 CP
						130X							
	-4.034		-5.955		3.255		-0.385	0.	-7.978	0.	0.492	0.	0.2
			-2.840		1.749		-2.569		-3.556		-2.152	1.2	0.3
	-2.0.6		-3。186 -4。354		3.126 4.546		-3.371		-3.556 -4.092		-2.109 -2.369		-0.0
	-2.332		-4.0224		4.890		-4.486 -1.276		-4.718		-2.529		-0.2
	-2.920		-3.013	10.0 -			-5.154		-4.316		-2.802	10.0	
	-3.281		-4.051	15.0 -			-0.920		-4.226		-3.192	5.0-	
	-3.236		-3.965	20.0 -			-4.397		-4.3.6		-3.799	20.0	
	-3.374		-4.095	25.3 -			-1.276		-4.762		-4.015	25.0	
	-3.446		-4.181	30.0 -			-4.664		-5.030		-4.189	30.0	
	-3.0.0		-3.922	40.0 -			-4-218		-4.807		-4,015	40.0	
	-2.920		-3.489	50.0			-3.862		-5.030		-4.146	50.0	
	-2.759		-3.229	63.0 -			-3.594		-4.762		-4,276	60.0	
	-3.435		-0.331	61.5 -			0.418		-0.377	61.05	0.449	61.5	
	-0.480		-1.110	62.5 -			-0.073		-0.832	62.5	0.215	62.5	
	-3.0.0		-5.522	65.0 -			-3.773		-4.494		-3.192	65.0	
	-4.636		-5,825	72,0 -			-5.422		-6.772		-6.963	70.0	
	-3.597		-4.051	75.0 -			-3.8.7		-5.298		-5.706	75.0	
	-2.0.6		-1.499	75.6 -			-1.143		-3.378		-1,198	75.6	
	-1.790		-1.845	76.3 -			-1.276		-3.646	76.3	0,449	76.3	
77.1	0.409		-2.797	77.2 -			-3,906		-4.807	77.2	0.449	77.1	
78.6	3.676	78.6	4.631	78.6		78.6	3.850	78.6	3.411	78.6	2.919	78.6	0.0
	-2.468		-3.186	80.0 -			-3.193		-5.477		-3.452	80.0	
	-2.443		-3.402	85.0 -			-3.193		-4.528		-3.799	85,0	
	-0.796		-0.850	90.0 -			-0.741		-1.770		-0.982	90.0	
	-0.1.9		-0.028	95.0 -			-0.117		-0.787	95.0	0.058	95.0	
2.5	1.192	4.5	5.812	2.5	3.672	2.5	2.468	2.5	5.599	2.5	0.492	2.5	3.4
5.0	4.309	5.0	4.990	5.0	3.844	5.0	1.755	5.0	4.929	5.0	0.492	5.0	0.5
7,5	3.496	7.5	+.038	7.5	2.854	7.5	1.577	7.5	1.892	7.5	0.535	7.5	0.5
10.0	2.637	10.0	3.433	10.0	2.123	10.0	1,398	10.0	3,455	10.0	0.492	10.0	0.3
15.0	1.282	15.0	2.827	15.0	1.305	15.0	0.863	5.0	0.329	15.0	0.579	15.0	0.3
20.0	0.830	20.0	2.745	20.0	. 004	20.0	0.596	20.0	0.552	23.0	0.579	20.0	0.3
30.0	0.469	30.0	0.577	30.0	0.746	30.0	0.596	30.0	0.597	30.0	0.579	30.0	0.3
50.0	0.469	50.0	1.226	50.0	1.004	50.0	1.086	50.0	0.463	50.0	0.882	50.0	0.3
65.0	4.173	65.0	5.596	65.0	4.561	65.0	4.251	65.0	4.840	65.0	4.349	65.0	0.8
70.0	2,275	70.0	3,779	70.0	3.069	70.0	2.602	70.0	3.44.	70.0	3,612	70.0	0.6
76.8	0.5.4	76.8	4.384	76.8	0.445	76.8	3.850	76.8	3.902	76.8	0.535	76.8	0.7
77.1	4.399	77.3	5.379	77.1	4.793	77.1	3.984	77.1	4.706	77.1	0.535	77.1	3.0
80.0	4.309	80.0	5.509	80.0	4.274	83.0	4.028	80.0	5.733	80.0	4.089	80.0	1.06
85.0	2.502	85.0	3,908	85.0	2.854	85.0	2.691	85.0	4.170	85.0	4.046	85.0	1.4
90.0	1.643	90.0	2.870	90.0	2.080	90.0	1.755	90.0	3.277	90.0	3.352	90.0	3.04
95.0	1.192	95.0	2.221	95.0	1.478	95.0	1.339	95.0	39د ه 2	95.0	2.529	95.0	1.4
	NORMAL												
= 3	3.99	6	.15	4.	78	. 5	. 15		5.59		. 29		2.65

RUN	39, PO	NT 9		Q = 4	4.54	Al	LPHA ≈ 2	o	TCP =	2.40			
VAL	VE 1	VALV	E 3	VALV	E 4	VAL	/E 5	VALV	F A	VALV	VE 7	VAL	/F 8
100X	CP	100X	CP	100X	CP	3/30X	СP	.00x	CP	100x	CP	100X	ČP
0.	-4.655	0.	-4.484	0.	0.402	<b>3.</b>	-0.563		-6.549	0.	0.535	G.	-0.028
1.2	-1.790		-3.705		-2.610		-2.881		-4.316		-2,932		-0.207
2.5	-2.513		-4,354		-4.416		-4.352		-4.539		-3.105		-0.297
5.0	-2.242		-5.219		-5.922		-5.556		-5.075		-4, 362		-0.386
7.5	-3.326		-5.263		-6.223		-1.499		-5.655		-4.926		-0.431
10.0	-4.034		-3.532		-6.438		-5.823		-4.986		-4.882		-0.610
15.0	-4.230	15.0	-5.090	15.0 .	-5.621		-1.009		-5.120		-4.752		-0.834
20.0	-4.230	20.0	-5.090	20.0	-5.105		-4.932		-5.432		-5,359		-1.505
25.0	-4.094	25.0	-5.133	25.0	-5-148	25.0	-1.4:0		-6.013		-5,359		-2.221
30.0	-4.049	30.0	-4.873	30.0 -	-4.761	33.0	-4.842	30.0	-6.013	30.0	-5.272		-2.892
40.0	-3.3.6	40.0	-4.268	40.0	-4.072	40.0	-4.218		-5.611		-4.926		-3-205
50.0	-3.055	50.0	-3.792		0.617	50.0	-3.773	50.0	-5.789		-4.882	50.0	-3.921
	-2.955		-3.576	60.0	-3.470	60.0	-3.238	60.0	-5.209	60.0	-4.969		-4.103
	-0.104		-1.023		-3.286	61.5	0.730	61.5	-1.547	61.5	0.145	61.5	-2.042
	-0,6.5		-0.980		-0.458		-0.162	62.5	-1.547	62.5	-0.332	62.5	-2.221
	-2.829		-4.787		-3.857	65.0	-2.302	65.0	-4.762	65.0	-3.712	65.0	-2.444
	-4.4.0		-5.392		-3.943	73.0	-3.817	70.0	-6.817	70.0	-7,873	70.0	-2.937
	-3.462	75.0	-3,835	75.0	-2.696	75.0	-2.480	75.0	-5.477	75.0	-6.573	75.0	-3.742
	-2.609	75.6	-1.586	75.6	-1.104	75.6	-0.652	75.6	-4.137	75.6	-1.632	75.6	-0.386
	-1.700	75.3	-1.456		-1.147	76.3	-0.697	76.3	~4.003	76.3	0.362	76.3	-0.565
77.1			-2.018		-C.889		-4.253	77.1	-4.673	77.1	0.362	77.1	-1.594
78.6		78.6	4.341	78.6	3.887	78.6		78.6	3.098	78.6	3.396	78.6	0.375
	-Z-663		-2.927		-2.236		-2.302	80.0	-5.923		-4.536	80.0	-0.341
	-2.5.3		-2.797		-2.536		-2.2.2		-4.584	85.0	-4.709	85.0	-0.699
	-0.661		-0.720		-0.631		-0.697		-1.904		-1,502	90.0	-2.265
	-0.028		-0.028		-0.286		-0.385		-1.011		-0.288		-3.205
2.5		2.5	6.461	2,5	95	2.5	0.640	2,5	6.001	2.5	0.535	2.5	
5.0		5.0	5.539	5.0	1.478	5.0	0.730	5.0	5.152	5.0	0.492	5.0	
7.5	1.643	7.5	4.471	7,5	1.262	7.5	0.997	7.5	2.026	7.5	0.535	7。5	
10.0	598	10.0	3,865	40.0	1.133	13.0	1.096	10.0	3.708	10.0	0.535	20.0	
15.0	0.695	15.3	3.216	15.0	047	15.0	0.819	5.0	0.329	15.0	0.579	15.0	
20.0	3.649	20.0	1.9.9	20.0	0.918	23.0	0.685	20.0	0.642	20.0	0,622		-0.218
30.0 50.0	0.444	30.0	0.880	30.0	0.832	30.0	0.640	30.0	0.731	30.0	0.622		-0.207
	0.559	50.0	1.226	50.0	1.047	50.0	0.938	50.0	0.374	50.0	0,665		-0.207
70.0	3.044	65.0	4.514	65.0	4.188	65.0	3.360	65.0	4.661	65.0	4.653	65.0	1.672
76.8	0.559	70.0	2.308	70.0	2.209	70.0	1.978	70.0	2.607	70.0	4.046	70.0	0.732
77.1	4.128	76.8 77	3.303	76.8	0.531	76.8	3.181	76.8	2.383	76.8	0.535	76.8	0.867
80.0	3.8.2	80.0	4.903 3.433	77,:	4.661	77.1	3.538	77.1	4.349	77.1	0.535	77.1	1,359
85.0	1.9.4	85.0	2.135	80.0 85.0	2.854	82.0	3.270 2.201	80.0	4.751 2.517	80.0	4.479	80.0	2.164
90.0	1.374	90.0	1.789	90.0	305	85.0 90.0		85.0		85.0	4,479	85.0	1.090
95.0	3,966	95.0	1.356	95.3	0.918	95.0	1.398	90.0	3.580	90.0	3.439	90.0	0.598
	NORMAL			7303	75.47.0	7700	0.997	95.0	0.999	95.0	2,572	95.0	0.017
	4.03		•31	4	.44		4.57		.72		6.34		2.71
			***				1021		9 ( 12	<del>-</del>	U . J T		-01A

TABLE V	-40
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RUN 36,	POINT 3	Q = 4.76	ALPHA =	O TCP	= 1.00	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CF		100X CP	100X CP	AGOX CP	100X CP	100X CP
01.0		03.411	00.994	04.754	0. 0.612	02-403
1.2 -0.9	.3 1.2 - 3.777	1.2085	1.2 -1.740	1.2 -2.219	1.2 -1.180	1.2 -1.304
2.5 -1.3	11 2.5 -1.863	2.5 -1.846	2.5 -2.048	2.5 -2.219	2.5 -1.180	2.5 -1.172
5.0 -1.3	1 5.0 -2.502	5.0 -2.819	5.0 -2.750	5.0 -2.692	5.0 -1.351	5.0 -1.260
7.5 -1.3	55 7.5 -2.630	7.5 -3.073	7.5 -0.774	7.5 -3.464	7.5 -1.564	7.5 -1.348
10.08	41 10.0 -2.502	10.0 -3.326	10.0 -3.233	.0.0 -3.079	10.0 -1.692	10.0 -1.436
15.3 -2.1	31 15.0 -2.673	15.0 -3.242	15.0 -0.599	15.0 -2.950	15.0 -1.948	15.0 -1.611
20.0 -2.3	72 20.0 -2.630	20.0 -3.157	20.0 -2.959	20.9 -2.950	20.0 -2.374	20.0 -1.699
25.0 -2.3	28 25.0 -2.758	25.0 -3.200	25.0 -0.818	25.0 -3.036	25.0 -2.588	25.0 -1.831
30.0 -2.4	6 30.0 -2.972	30.0 -3.200	30.0 -3.408	30.0 -3.250	30.0 -2.758	3C. 0 -1.875
40.0 -2.2	83 40.0 -2.972	40.3 -3.157	40.0 -3.321	40.0 -3.293	40.0 -2.844	40.0 -1.963
50.0 -2.2	83 50.0 -2.929	50.0 0.733	50.0 -3.277	50.0 -3.637	50.0 -3.142	50.0 -2.139
60.0 -2.2	83 60.0 -2.929	60.0 -2.946	60.0 -3.321	60.0 -3.723	60.0 -3.526	60.0 -2.403
61.54	43 61.5 -1.393	01.5 -1.804	61.5 -1.082	61.5 -1.961	61.5 -1.436	61.5 -2.007
62.5 -4.2	73 62.5 -6.214	62.5 -6.329	62.5 -5.472	62.5 -5.785	62.5 -4.721	62.5 0.983
65.0 -6.6	7 65.0 -8.389	65.0 -8.950	65.0 -8.808	65.0 -8.750	65.0 -9.669	65.0 -6.801
70.0 -4.6	71 70.0 -6.427	70.0 -6.667	70.0 -6.920	70.0 -6.816	70.0 -8.048	70.0 -5.965
75.0 -2.7	26 75.0 -3.654	75.0 -4.088	75.0 -4.155	75.0 -4.496	75.3 -5.446	75.0 -5.877
75.6 -2.4	6 75.6 -3.957	75.6 -3.707	75.6 -3.365	75.6 -4.840	75.6 -3.142	75.6 -4.470
76.3 -3.5	2 76.3 -3.995	76.3 -4.637	76.3 -3.408	76.3 -5.656	76.3 0.697	76.3 -6.185
77.1 0.5	91 77.2 -4.507	77.1 -3.538	77-1 0-586	77.1 -5.785	77.1 0.697	77-1 -6-889
78.6 1.9	2 78.6 2.403	78.6 2.128	78.6 1.947	78.6 1.690	78.6 1.550	78.6 0.192
80.0 -2.3	72 80.0 -2.886	80.0 -3.073	80.0 -3.672	80.0 -4.110	83.0 -3.825	80.0 -6.273
85.0 -2.5		85.0 -1.973	85.0 -2.355	85.0 -2.391	85.0 -2.374	85.0 -4.954
90.0 -0.9		90.0 -0.366	97.0 -0.335	90.0 -0.887	90.0 -0.668	90.0 -2.183
95.0 -0.6		95.0 -0.197	95.0 0.191	95.0 -0.286	95.0 -0.284	95.0 -0.952
2.5 0.7		2.5 2.173	2.5 2.342	2.5 2.807	2.5 0.612	2.5 -0.204
5.0 1.5.		5.0 2.382	5.0 2.079	5.0 2.550	5.0 0.612	5.0 0.675
7.55		7.5 2.086	7.5 1.772	7.5 0.874	7.5 0.612	7.5 0.763
10.0 1.5		10.0 1.748	10.0 1.420	10.0 1.905	10.0 0.612	10.0 1.951
15.0 1.2		15.0 1.283	15.0 0.894	35.0 0.401	15.0 0.654	15.0 0.588
20.0 1.0		20.0 1.071	20.0 0.806	20.0 0.530	20.0 0.697	20.0 0.412
30.0 0.6		30.0 0.944	30.0 0.762	30.0 0.616	30.0 0.697	30.0 0.236
50.0 0.6		50.0 1.198	50.0 1.289	50.0 0.874	50.0 1.124	50.0 0.675
65.0 2.5		65.0 2.678	65.0 2.781	65.0 2.807	65.0 2.617	65.0 1.555
70.0 2.2		70.0 2.678	70.0 2.606	70.0 2.635	70.0 2.702	70.0 1.819
76.8 9.6		76.8 0.310	76.8 2.606	76.8 2.635	76.8 0.825	76.8 1.731
77.1 2.4		77.1 2.424	77.2 2.430	77.1 2.378	77.1 0.825	77.1 1.203
80.0 2.6		80.0 2.678	80.0 2.781	80.0 2.635	80.0 2.531	80.0599
85.0 2.7		85.0 2.636	85.0 2.606	85.0 2.893	85.0 2.915	85.0 2.127
90.0 2.3		90.0 2.424	90.0 2.211	90.0 2.721	90.0 2.659	90.0 3.951
95.0 1.8		95.0 2.001	95.0 1.816	95.0 2.421	95.0 2.403	95.0 1.555
	AL COEFFICIENT	4 22		- 00		
CN = 3.54	4.88	4.23	4.65	5.02	4.46	3.74

RUN 36, P	O TNIC	0 = 4.64	ALPHA = 1	2 TCP =	1.00	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	LODX CP	100X CP	100X CP	OOX CP	100X CP	100X CP
0. 0.244	02.260	00.636	00.343	02.981	0. 0.672	01.607
1.2 -1.525		1.2 -2.197	1.2 -2.055	1.2 -2.761	1.2 -2.085	1.2 -1.788
2.5 -2.125	2.5 -3.004	2.5 -3.412	2.5 -3.181	2.5 -3.257	2.5 -2.435	2.5 -1.968
5.0 -2.296	5.0 -3.835	5.0 -4.279	5.0 -4.126	5.0 -3.598	5.0 -3.573	5.0 -2.465
7.5 -2.342		7.5 -4.583	7.5 -1.244	7.5 -4.039	7.5 -3.879	7.5 -2.690
10.0 -3.1.3		10.0 -4.756	10.0 -4.487	:0.0 -3.686	10.0 -3.704	10.0 -2.690
15.0 -3.249		15.0 -4.323	15.0 -0.884	15.0 -3.598	15.0 -3.485	15.0 -2.825
20.0 -3.340		20-0 -4-062	20.0 -3.901	20.0 -3.730	20.0 -4.011	20.0 -2.780
25.0 -3.15		25.0 -4.062	25.0 -1.154	25.0 -3.995	25.0 -4.054	25.0 -2.871
30.0 -3.1.3		30.0 -3.889	30.0 -4.081	30.0 -4.303	30.0 -4.054	30.0 -2.825
40.0 -2.639		40.0 -3.498	40.0 -3.766	40.0 -4.259	40.0 -3.923	40.0 -2.825
50.0 -2.476		50.0 0.753	50.0 -3.496	50.0 -4.436	50.0 -4.098	50.0 -3.051
60.0 -2.251		61.5 -1.677	61.5 -0.794	60.0 -4.303	60.0 -4.404	60.0 -3.367
62.5 -3.43		62.5 -4.887	62.5 -4.397	62.5 -6.322	62.5 -5.717	62.5 0.784
65.0 -5.608		65.0 -6.882	65.0 -6.603	65.0 -9.240	65.0-11.844	65.0 -9.773
70.0 -3.54		70.0 -4.409	70.0 -4.892	70.0 -7.300	70.0 -9.918	70.0 -8.826
75.0 -1.954		75.0 -2.241	75.0 -2.640	75.0 -5.141	75.0 -6.811	75.0 -6.074
75.6 -1.979		75.6 -2.457	75.6 -2.190	75.6 -5.493	75.6 -4.273	75.6 -6.254
76.3 -2.43		76.3 -3.151	76.3 -2.235	76.3 -6.463	76.3 0.541	76.3 -8.465
77.3 0.60		77.1 -2.110	77.1 0.332	77.1 -6.463	77.1 0.584	77.1 -9.638
78.6 2.28		78.6 2.531	78.6 1.998	78.6 1.558	78.6 1.722	78.6 0.378
80.0 -1.57		82.0 -1.937	80.0 -2.730	80.0 -4.876	80.0 -5.630	80.0 -0.524
85.0 -1.65	85.0 -1.472	85.0 -1.677	85.0 -1.830	85.0 -2.717	85.0 -3.573	85.0 -0.705
90.0 -0.79	90.0 -0.466	90.0 -0.636	90.0 -0.614	90.0 -1.218	90.0 -1.122	90.0 -0.976
95.0 -0.6.		95.0 -0.429	95.0 -0.298	95.0 -0.777	95.0 -0.728	95.0 -1.337
2.5 2.05		2.5 2.054	2.5 0.782	2.5 3.189	2.5 0.672	2.5 0.829
5.0 1.60		5.0 1.664	5.0 0.918	5.0 2.837	5.0 0.672	5.0 0.874
7.524		7.5 2.403	7.5 0.918	7.5 0.941	7.5 0.672	7.5 0.784
10.0 0.94		.0.0 1.273	10.0 0.953	10.0 2.131	10.0 0.672	10.0 1.822
15.0 0.78		15.C 1.100	15.0 0.827	15.0 0.457	15.0 0.716	15.0 1.145
20.0 0.69		20.0 1.013	20.0 0.827	20.0 0.545	20.0 0.716	20.0 1.055
30.0 0.65		30.0 0.926	30.0 0.918	30.0 0.677 50.0 0.589	30.0 0.760 50.0 1.022	30.0 0.919 50.0 0.784
50.0 0.69		50.0 0.970	50.0 0.918 65.0 2.539	50.0 0.589 65.0 3.89	65.0 3.429	65.0 2.137
65.0 3.46 70.0 2.44		65.0 3.138 70.0 2.575	65.0 2.539 70.0 2.224	70.0 2.660	70.0 3.385	70.0 2.183
		76.8 0.275	76.8 2.359	76.8 2.572	76.8 0.760	76.8 2.137
76.8 0.60 77.1 2.69		77.1 2.791	77.1 2.314	77.1 2.352	77.1 0.760	77.1 1.596
80.0 2.64		80.0 2.922	80.0 2.629	80.0 2.969	80.0 3.123	80.0 2.589
85.0 2.19		85.0 2.184	85.0 1.953	85.0 2.220	85.0 3.517	85.0 2.273
90.0 2.60		90.0 7.620	90.0 1.458	90.0 1.426	90.0 3.166	90.0 1.731
95.0 4.12		95.0 1.286	95.0 1.053	95.0 0.897	95.0 2.816	95.0 1.145
	L COEFFICIENT					
CN = 3.63	5.04	4.11	4.34	5.58	5.92	4.47

					TABLE	V-42							
RUN	36, POI	NT 7		Q =	4.64	AL	PHA = 1	6	TCP =	1.00			
VALV	/E 1	VALV	E 3	VALV		VALV	/E 5	VALV	/E 6	VALV	E 7	VALV	
100X	CP	100X	CP	100X	CP	100X	CP	1.00X	CP	100X	CP	100X	CP
0.	0.788	0.	-2.085	0.	0.275	0.	-0.749	0.	-2.805	0.	0.672		-1.111
1.2	-1.455		-2,916	1.2	-2.154	8.2	-2.550		-2.893		-2.129		-1.968
2.5	-2.296		-3.354		-3.672		-3.676		-3.334		-2.785		-2.239
	-2.342		-4.011		-4.626		-4.622		-3.774		-4.142		-2.825
	-2.387		-3.967		-4.930		-1.379		-4.171		-4.536		-3.051
	-3.431		-3.310		-5.017		-4.667		-3.819		-4.273		-3.006
	-3.567		-3.923		-4.540		-0.929		-3.730		-3.923		-3.141
	-3.567		-3.879		-4.149		-3.991		-3.863		-4.492		-3.141
	-3.340		-3.835		-4.149		-1.154 -4.036		-4.259		-4.404 -4.273		-3.096 -3.051
	-3.249		-3.660 -3.223		-3.889 -3.412		-3.676		-4.524 -4.259		-4.098		-3.006
	-2.705		-2.829		0.709		-3.361		-4.480		-4.229		-3.232
	-2.307 -2.1.5		-3.135		-2.978		-3.181		-4-127		-4.579		-3.502
	-0.890		-1.297		-2.546		-0.659		-2.188		-2,085		-3.457
	-3.158		-4.054		-4.193		-3.8.1		-5.537		-5.717		0.739
	-4.474		-4.973		-5.581		-5.567		-8.358		-11.363		-2.239
	-2.296		-1.385		-3.542		-4.216		-6.331		-9.087		-2.374
	-1.102		-0.903		-1.807		-2.460		-4.083		-6.330		-2.600
	-1.57h		-1.910		-1.980		-1.785		-4.656		-3.660		-5-172
	-2.024		-2.391		-2.501		-1.875		-4.964	76.3			-7.023
77.1	0.654		-1.954		-1.677	77.1	0.287		-4.347	77.1	0.584		-7.879
78.6	2.059	78.5	2.422	78.6	2.444	78.6	1.818	78.6	1.603	78.6	1.941	78.6	0.603
80.0	-1.344	80.0	-1.385		-1.503	80.0	-2.415	80.0	-3.642	80.0	-5.236	80.0	-6.299
85.0	-1.C72	35.0	-0.728	85.0	-1.286	85.0	-1.785	.85.0	-2.320	85.0	-3.442	85.0	-5.893
90.0	-0.547	90.0	-0.466		-0.332		-0.388	90.0	-1.439		-1.341		-3.277
	-0.391		-0.597		-0.202		-0.253		-1.483		-1.078		-2-149
2.5	2.0.5	2.5	3.560	2.5	2.400	2.5	0.872	2.5		2.5	0.672	2.5	0.919
5.0	0.924	53	3.210	5.0	1.100	5.0	0.872	.5.0	2.837	5.0	0.672	5.0	0.919
7.5	0.879	7.5	2.773	7.5	1.056	7.5	0.827	7.5	0.941	7.5	0.672	7.5	0.829
10.0	0.879	10.0	2.598	10.0	1.100	10.0	0.918	10.0	2.175	10.0	0.672	10.0	1.776
15.0	J.788	15.0	2.379	15.0	1.056	15.0	0.782	15.0	0.501	15.0	0.716	15.0	0.558
20.0	0.652	20.0	1.679	20.0	0.926	20.0	0.827	20.0	0.633	20.0	0.760	20.0	0.243
30.0	0.652	30.0	0.978	30.0	0.883	30.0	0.872	30.0	0.765	30.0	0.760	30.0	0.062
50.0	0.698	50.0	1.110	50.0	0.970	50.0	0.918	50.0	0.589	50.0	1.022	50.0	0.468 2.363
65.0 70.0	3.057	65.0	3.517 2.247	70.0	3.138	65.0	2,359	65.0	3.189	65.0	3.735 3.473	65.0	2.137
76.8	2.059	70.0	2.598	76.8	2.184	70.0	1.863 2.269	70.0	2.352	70.0	0.716	70.0 76.8	2.137
77.1	2.467	77.5	2.860	77.1	2.705	76.8 77.1	2.224	76.8	2.220	76.8 77.1	0.716	77.1	1.731
80.0	2.149	80.0	2.554	80.0	2.618	80.0	2.584	80.0	2.572	80.0	3.385	80.0	2.814
85.0	1.605	85.0	1.854	85.0	1.794	85.0	1.773	85.0	1.294	85.0	3.560	85. G	2.183
90.0	1.333	90.0	1.679	90.0	1.360	90.0	1.233	90.0	0.853	90.0	3.166	90.0	1.506
95.0	1.015	95.0	1.241	95.0	1.056	95.0	0.872	95.0	0.589	95.0	2.685	95.0	0.919
	NORMAL							,,,,,					
	3.33		- 52		3.84		4.15	- 4	5.30		6.08	. 4	-14

TPATR1	T.TP	37_	1.0

RUN 35, POI	NT 3	Q = 4.47	ALPHA =	O TCP =	2.50	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	IOOX CP	100X CP	100X CP	100X CP
30.2.7	06.433	04.801	04.609	08.721	0. 1.062	0. 0.253
1.2	1.2 -2.390	1.2 -1.334	1.2 -1.571	1.2 -2.910	1.2 -1.754	1.2 0.065
2.5 -3.253	2.5 -2.254	2.5 -2.190	2.5 -2.179	2.5 -2.727	2.5 -1.754	2.5 -0.028
5.0 -1.205	5.0 -3.253	5.0 -3.495	5.0 -3.347	5.0 -3.505	5.0 -0.710	5.0 -0.122
7.5 -i.253	390 و 390 د 7	7.5 -3.946	7.5 -1.103	7.5 -4. 91	7.5 0.108	7.5 -0.309
19.0 -2.006	<b>.</b> 0.0 −3.253	10.0 -4.396	10.0 -4.282	.0.0 -4.054	10.0 -1.164	10.0 -0.543
15,0 -2.053	5.0 -3.526	15.0 -4.216	15.0 -0.870	45.0 -3.871	15.0 -1.754	.5.0 -0.778
20.0 -2.854	20.0 -3.526	20.0 -4.036	23.3 -4.092	20-0 -4-008	20.0 -2.981	20.0 -1.199
25.0 -2.90.	25.0 -3.844	25.0 -4.216	25.0 -1.244	25.0 -4.329	25.0 -3.435	25.0 -1.386
30.0 -3.136	30.0 -4.026	30.0 -4.261	30.0 -4.609	30.0 -4.603	30.5 -3.889	30.0 -1.527
40.0 -2.901	40.0 -4.117	40.0 -4.171	40.0 -4.5.6	40.0 -4.786	40.0 -4.026	40.0 -1.667
50.0 -3.089	50.0 -3.980	50.0 1.188	50.0 -4.609	50.0 -5.427	50.0 -4.616	50.0 -1.855
60.0 -3.230	60,0 -3,344	60.0 -4.036	67.0 -4.796	60.0 -5.793	60.0 -5.388	60.0 -1.995
61.5 -2.241	61.5 -2.209	61.5 -2.415	65 -0.916	62.5 -3.414 62.5 -9.544	61.5 -2.754	61.5 -1.995 62.5 1.939
62.5 -6.7.5	62.5-10.067	62.5 -9.709	62.5 -8.256 65.0-14.333	65.0-14.256	62.5 -7.660	65.0 1.658
65.0-12.244	65.0-14.065	65.0-14.527 70.0-11.510		70.0-11.191	70.0-13.383	70.0 1.564
70.0 -8.4.0	70.0-1158	75.0 -7.503	70.0-11.855 75.0 -7.321	75.0 -7.668	75.0 -9.068	75.0 3.377
75.0 -5.255	75.0 -6.933					
75.6 -4.360	75.0 -5.388	75.6 -6.557	75.6 -6.433	75.6 -8.080	75.6 -5.388	75.6 0.627
76.3 -5.133 77.1 5.9.4	75.3 -7.705 77.1 -8.568	76.3 -8.899 77.4 -7.098	76.3 -6.479	76.3 -9.864	76.3 1.198 77.1 1.198	76.3 0.393
78.6 3.127	78.6 4.514	78.6 4.114	77-1 1-5:4			
80.0 -3.964	80.0 -5.343	80.0 -5.567	78.6 3.875 80.0 -6.479	78.6 3.357 80.0 -7.028	78.6 2.561 80.0 -6.660	78.6 0.346 80.0 -0.028
85.0 -3.937	85.0 -3.435	85.0 -3.540	85.0 -4.095	85.0 -3.963	85.0 -4.071	85.0 -0.028
90.0347	90.0 -0.730	90.0 -0.569	90.0 -0.636	90.0 -1.309	90.0 -0.710	90.0 -0.262
95.0 -0.876	95.0 0.063	95,0 -0.163	95.0 0.206	95.0 -0.257	95.0 0.108	95.0 -0.543
2.5 -0.169	2.5 5.332	2.5 2.403	2.5 2.870	2.5 5.096	2.5 1.107	2.5 -0.075
5.0 2.008	5.0 4.514	5.0 3.844	5.0 3.992	5.0 4.730	5.0 1.107	5.0 0.768
7.5 1.337	7.5 3.651	7.5 3.529	7.5 3.712	7.5 2.756	7.5 1.07	7.5 0.768
10.0452	10.0 3.242	10.0 2.854	10.0 2.917	:0.0 3.357	10.0 1.107	10.0 3.063
15.0902	5.0 2.697	15.0 1.863	15.0 2.636	5.0 0.887	15.0 1.017	15.0 2.829
20.0 1.545	20.0 2.001	20.0 1.368	20.0 1.140	20.0 1.024	20.0 1.062	20.0 2.688
30.0 J.772	30.0 0.880	30.0 2.098	35.0 1.394	30.0 2.162	30.0 1.198	30.0 2.548
50.0 2.008	50.0 2.152	50.0 2.223	50.0 2.449	50.0 1.665	50.0 1.834	50.0 2.407
65.0 4.022	65.0 5.514	65.0 5.150	65.0 5.067	65.0 5.370	65.0 3.470	65.0 2.220
70.0 3.759	70.0 5.514	70.0 5.015	70.0 4.834	70.0 5.004	70.0 4.151	70.0 2.126
76.8 0.9.4	76.8 5.695	76.8 0.287	76.8 5.057	76.8 5.487	76.8 1.289	76.8 1.986
77.1 4.163	77. 5.287	77.1 4.745	77.1 4.600	77.1 4.547	77.1 1.289	77.1 1.330
80.0 4.3.4	80.0 5.695	80.0 5.285	80.0 5.254	80.0 5.324	80.0 3.742	80.0 1.751
85.0 4.540	85.0 5.786	85.0 5.015	85.0 4.974	85.0 5.416	85.0 5.332	85.0 2.367
90.0 3.551	90.0 5.468	90.0 4.430	90.0 4.226	90.0 4.821	90.0 5.060	90.0 2.313
95.0 2.891	95.0 4.878	95.0 3.484	95.0 3.244	95.0 4.272	95.0 4.605	95.0 2.032
TOTAL NORMAL						
CN = 5.03	7.82	6.56	7.55	8.21	6.76	2.78

PABLE	V-41

RUN 35, POINT 6	Q = 4.46	ALPHA = i	2 TCP =	2.50	
VALVE 1 VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP 400X CP	100X CP	100X CP	3 DOX CP	±00X CP	100X CP
04.889 05.765	02.826	00.450	07.777	0. 0.882	0. 0.019
1.2 -1.680 1.2 -3.534	1.2 -2.510	1.2 -2.699	1.2 -4.017	1.2 -2.760	1.2-18.944
2,5 -2,199 2,5 -3,989	2.5 -4.180	2.5 -3.870	2.5 -4.430	2.5 -2.805	2.5 -0.122
5.0 -2.246 5.0 -5.082	5.0 -5.940	5.0 -5.557	5.0 -5.118	5.0 -3.625	5.0 -0.263
7.5 -2.388 7.5 -5.036	7.5 -6.256	7.5 -1.668	7.5 -5.714	7.5 -4.171	7.5 -7.545
10.0 -3.739 10.0 -4.581	10.0 -6.572	10.0 -6.072	0.0 -5.255	10.0 -4.308	10.0 -1.202
15.0 -3.709 15.0 -4.991	15.0 -5.850	15.0 -1.200	.5.0 -5.209	15.0 -4,353	15.0 -2.140
20.0 -4.2.9 23.0 -4.854	20.0 -5.444	20.0 -5.369	20.0 -5.485	20.0 -5.082	20.0 -2.422
25.0 -4.087 25.0 -5.173	25.0 -5.669	25.0 -1.839	25.0 -6.081	25.0 -5.218	25.0 -2.610
30.0 -3.993 30.0 -4.900	30.0 -5.218	30.0 -5.604	30.0 -6.264	30.0 -5.355	30.0 -2.751
40.0 -3.379 40.0 -4.490	40.0 -4.722	40.0 -5.135	40.0 -6.127	40.0 -5.264	40.0 -2.938
50.0 -3.285 50.0 -4.035	50.0 0.920	50.0 -5.041	50.0 -6.768	50.0 -5.674	50.0 -3.079
60.0 -3.190 60.0 -5.036	60.0 -4.315	60.0 -5.088	60.0 -6.860	60.0 -6.357	60.0 -3.314
61.5 -1.633 65 -2.578	61.5 -2.601	61.5 -0.825	61.5 -3.926	61.5 -2.942	61.5 -3.408 62.5 1.849
62.5 -4.937 62.5 -7.222	62.5 -7.520	62.5 -6.728	62.5-10.207	62.5 -8.587	65.0 -0.638
65.0 -8.429 65.0 -7.176 70.0 -5.550 7J.0 -7.131	65.0-10.498 70.0 -7.799	65.0-10.945 70.0 -8.321	65.0-15.847 70.0-12.546	65.0-18.330 70.0-15.644	70.0 -4.910
75.0 -2.8.3 75.0 -2.487 75.6 -3.049 75.6 -4.308	75.0 -4.090	75.0 -4.995	75.0 -8.633	75.0-10.727	75.0 -5.097
76.3 -4.040 76.3 -5.264	75.6 -4.496 76.3 -5.714	75.6 -4.339 76.3 -4.339	75.6 -9.428 76.3-11.079	75.6 -6.357 76.3 0.746	75.6 -4.628 76.3 -5.191
77.1 3.774 77.1 -4.718	77-1 -4-045	77.1 1.143	77.1-11.170	77.1 0.882	77.1 -5.473
78.6 3.963 78.5 5.299	78.6 4.710	78.6 3.720	78.6 3.090	78.6 3.159	78.6 0.629
80.0 -2.294 80.0 -3.570	80.0 -3.368	80.0 -4.760	80.0 -8.373	80.0 -9.043	80.0 0.253
85.0 -1.822 85.0 -1.804	85.0 -2.736	85.0 -3.448	85.0 -4.889	85.0 -5.583	85.0 0.019
90.0 -1.067 90.0 -1.030	90.0 -0.886	90.0 -0.965	90.0 -1.954	90.0 -1.485	90.0 -0.169
95.0 -0.878 95.0 -1.303	95.0 -0.886	95.0 -0.450	95.0 -1.129	95.0 0.063	95.0 -1.014
2.5 2.756 2.5 6.255	2.5 3.808	2.5 0.862	2.5 5.887	2.5 0.882	2.5 0.817
5.0 4.408 5.0 5.390	5.0 3.041	5.0 1.049	5.0 5.107	5.0 0.837	5.0 0.911
7.5 3.087 7.5 4.434	7.5 2.138	7.5 0.825	7.5 1.898	7.5 0.882	7.5 0.864
10.0 1.860 10.0 3.933	10.0 1.687	10.0 0.939	10.0 3.686	10.0 0.882	10.0 2.694
15.0 0.9.0 15.0 3.295	15.0 1.235	15.0 0.768	25.0 0.568	15.0 0.973	15.0 1.662
20.0 0.727 20.0 2.203	20.0 1.055	20.0 0.534	20.0 0.843	20.0 0.973	20.0 1.004
30.0 0.585 30.0 0.928	30.0 0.874	30.0 0.721	30.0 0.935	30.0 1.110	30.0 0.019
50.0 0.841 50.0 1.611	50.0 1.326	50.0 1.471	50.0 0.981	50.0 1.611	50.0 0.676
65.0 5.635 65.0 6.437	65.0 5.613	65.0 4.189	65.0 5.887	65.0 5.708	65.0 2.460
70.0 3.983 73.0 4.843	70.0 4.394	70.0 3.861	70.0 5.153	70.0 5.890	70.0 2.882
76.8 0.727 76.8 5.663	76.8 0.288	76.8 4.704	76.8 4.649	76.8 1.019	76.8 3.117
77.1 4.880 77.1 5.708	77.1 5.162	77.1 4.423	77.1 4.465	77.1 1.064	77.1 2.506
80.0 4.691 80.0 6.073	80.0 5.568	80.0 4.985	80.0 5.428	80.0 5.526	80.0 3.586
85.0 3.606 85.0 4.479	85.0 3.943	85.0 3.954	85.0 3.961	85.0 6.118	85.0 3.304
90.0 2.473 90.0 3.751	90.0 2.770	90.0 2.783	90.0 2.998	90.0 5.754	90.0 3.117
95.0 1.624 95.0 2.430	95.0 2.777	95.0 1.940	95.0 2.035	95.0 4.934	95.0 2.882
TOTAL NORMAL COEFFICIENT					
CN = 4.95 7.39	6.02	6.59	9.06	8.74	3.87

TABLE	V-45
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RUN 35, PO	INT 7	Q = 4.46	ALPHA =	16 TCP	= 2.50	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	1.00X CP	100X CP	100X CP	100X CP	100X CP
03.993	05.674	01.021	00.637	07.089	0. 0.928	01.483
1.2 -3.9.6	1.2 -3.807	1.2 -2.046	1.2 -2.746	1.2 -4.384	1.2 -2.942	1.2 -2.422
2.5 -2.308	2.5 -4.308	2.5 -4.677	2.5 -4.198	2.5, -4.613	2.5 -3.033	2.5 -2.610
5.0 -2.435	5.0 -5.309	5.0 -6.030	5.0 -5.650	5.0 -5.255	5.0 -4.171	5.0 -3.220
7.5 -2.530	7.5 -5.173	7.5 -6.391	7.5 -1.715	7.5 -5.851	7.5 -4.627	7.5 -3.455
10.0 -3.851	10.0 -4.627	10.0 -6.707	10.0 -6.166	10.0 -5.347	10.0 -4.763	10.0 -3.549
15.0 -3.898	15.0 -5.082	15.0 -5.940	15.0 -1.200	15.0 -5.347	15.0 -4.763	15.0 -3.595
20.3 -4.4.7	20.0 -5.036	20.0 -5.489	20.0 -5.463	20.0 -5.760	20.0 -5.492	20.0 -3.595
25.0 -4.087	25.0 -5.218	25.0 -5.534	25.0 -1.762	25.0 -6.539	25.0 -5.537	25.0 -3.595
30.0 -4.040	30.0 -5.036	30.0 -5.173	30.0 -5.510	30.0 -6.493	30.0 -5.537	30.0 -3.595
40.0 -3.426	40.0 -4.627	40.0 -4.631	40.0 -5.041	40.0 -6.356	40.0 -5.446	40.0 -3.642
50.0 -3.190	50.0 -3.898	50.0 0.829	50.0 -4.760	50.0 -6.860	50.0 -5.765	50.0 -3.877
60.0 -2.907	60.0 -3.989	60.0 -4.135	60.0 -4.620	60.0 -6.768	60.0 -6.448	60-0 -4-253
61.5 -2.105	61.5 -2.532	61.5 -2.691	65 -0.684	61.5 -4.063	61.5 -3.488	61.5 -4.112
62.5 -5.05	62.5 -6.539	62.5 -6.888	62.5 -6.400	62.5 -9.978	62.5 -8.405	65.0 -0.216
65.0 -8.193	65.0 -7.540	65.0 -9.957	65.0-10.242	70-0-12-271	65.0-18.422 70.0-15.917	70.0 -1.202
70.0 -4.4.7	70.0 -4.945	70.0 -6.617	70.0 -7.478	75.0 -8.282	75.0-11.091	75.0 -2.281
75.0 -2.954	75.3 -2.487	75.0 -3.323	75.0 -4.198	75.6 -8.923	75.6 -6.584	75.6 -2.985
75.6 -3.143	75.6 -3.124	75.6 -3.774	75.6 -3.495 76.3 -3.542	76.3-10.070	76.3 0.791	76.3 -3.314
76.3 -3.993	76.3 -3.397	76.3 -4.586 77.1 -3.232	77.1 1.003	77.1-10.620	77-1 0-746	77.1 -3.549
77.1 0.650 78.6 3.936	77.1 -3.306 78.6 4.980	78,6 4,440	78.6 3.767	78.6 2.998	78.6 3.250	78.6 0.957
78.6 3.936 80.0 -2.152	80.0 -2.669	80.0 -3.187	80.0 -4.526	80.0 -8.373	80.0 -9.452	80.0 0.394
85.0 -2.135	85.0 -2.031	85.0 -2.375	85.0 -2.980	85.0 -4.476	85.0 -5.719	85.0 0.066
90.0 -0.9.5	90.0 -1.166	90.0 -0.660	90.0 -0.778	90.0 -1.816	90.0 -1.440	90.0 -0.122
95.0 -0.595	95.0 -0.939	95.0 -0.479	95.0 -0.403	95.0 -0.899	95.0 0.017	95.0 -1.436
2.5 3.087	2.5 6.482	2.5 2.905	2.5 0.768	2.5 6.070	2.5 0.928	2.5 0.817
5.0 2.945	5.0 5.572	5.0 2.048	5.0 0.768	5.0 5.107	5.0 0.928	5.0 0.957
7.5 2.284	7.5 4.525	7.5 1.551	7.5 1.096	7.5 1.943	7.5 0.882	7.5 0.817
10.0 1.482	10.0 4.024	10.0 1.326	13.0 0.862	10.0 3.778	10.0 0,928	10.0 2.694
15.0 0.869	15.0 3.295	15.0 1.055	15.0 0.675	15.0 0.476	15.0 0.973	15.0 1.380
20.0 0.727	20.0 2.112	20.0 0.920	20.0 0.628	20.0 0.843	20.0 1.019	20.0 0.864
30.0 0.585	30.0 0.928	30.0 0.784	30.0 0.581	30.0 0.889	30.0 1.064	30.0 0.113
50.0 0.821	50.0 1.520	50.0 1.281	50.0 1.284	50.0 0.751	50.0 1.656	50.0 0.676
65.0 5.7±0	65.0 6.437	65.0 5.613	65.0 4.095	65.0 5.887	65,0 5,981	65.0 2.647
70.0 3.700	70.0 4.160	70.0 3.853	70.0 3.533	70.0 4.603	70.0 6.164	70.0 2.882
76.8 0.680	75.8 4.889	76.8 0.333	76.8 4.282	76.8 4.007	76.8 1.064	76.8 3.023
77,2 4,533	77.1 5.253	77.1 5.026	77.1 4.235	77-1 4-190	77.1 1.110	77.1 2.553
80.0 4.597	80.0 5.116	80.0 4.891	80.0 5.032	80.0 4.511	80.0 5.845	80.0 4.055
85.0 3.370	85.0 3.432	85.0 3.086	85.0 3.345	85.0 3.273	85.0 6.482	85.0 3.073
90.0 2.426	90.0 2.931	90.0 2.093	90.0 2.478	90.0 1.989	90.0 5.845	90.0 2.084
95.0 1.7.8	95.0 1.793	95.0 2.326	95.0 1.799	95.0 1.577	95.0 5.071	95.0 1.380
TOTAL NORMAL				2.70	9.02	3.93
CN = 4.83	6.94	5.59	6,19	8,78	7602	2673

01 1.2 -0 2.5 -0 5.0 -0 1.0 -1 1.0 -1	1 EP 1.816 0.738 0.936 0.965 1.362 1.504 1.617 1.731 1.702 1.759	VALVE 3 100X CP 01.690 1.2 -1.061 2.5 -1.111 5.0 -1.439 7.5 -1.514 10.0 -1.510 15.0 -1.590 20.0 -1.590 25.0 -4.665 30.0 -1.716	Q = 8.00  VALVE 4  100X CP  02.025  1.2 -0.752  2.5 -1.152  5.0 -1.476  7.5 -1.701  10.0 -1.801  120.0 -1.801	VALVE 5 100X CP 02.111 1.2 -0.687 2.5 -1.069 5.0 -1.408 7.5 -0.497 10.0 -1.720	VALVE 6 100X CP 02.401 1.2 -1.266 2.5 -1.163 5.0 -1.473 7.5 -1.705	0. VALVE 7 100X CP 0. 0.501 1.2 -0.709 2.5 -0.810 5.0 -1.138 7.5 -1.289	VALVE 8 100X CP 00.184 1.2 -0.314 2.5 -0.548 5.0 -0.860
100X 01 1.2 -0 2.5 -0 5.0 -0 7.5 -1 10.0 -1 15.0 -1 22.0 -1 30.0 -1 40.0 -1 50.0 -1 60.0 -1 60.0 -1 60.0 -1 60.0 -1 75.0 -1	CP 1.816 0.738 0.936 0.965 1.362 1.504 1.617 1.731 1.702 1.759	100X 01.690 1.2 -1.061 2.5 -1.111 5.0 -1.439 7.5 -1.514 10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	100X CP 02.025 1.2 -0.752 2.5 -1.152 5.0 -1.476 7.5 -1.701 10.0 -1.826 15.0 -1.801	100X CP 02.111 1.2 -0.887 2.5 -1.069 5.0 -1.408 7.5 -0.497 10.0 -1.720	100X CP 02.401 1.2 -1.266 2.5 -1.163 5.0 -1.473	100X CP 0. 0.501 1.2 -0.709 2.5 -0.810 5.0 -1.138	100X CP 00.184 1.2 -0.314 2.5 -0.548
01 1.2 -0 2.5 -0 5.0 -0 1.0 -1 1.0 -1	1.816 0.738 0.936 0.965 1.362 1.504 1.617 1.731 1.702 1.759	01.690 1.2 -1.061 2.5 -1.111 5.0 -1.439 7.5 -1.514 10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	02.025 1.2 -0.752 2.5 -1.152 5.0 -1.476 7.5 -1.701 10.0 -1.826 15.0 -1.801	02.111 1.2 -0.887 2.5 -1.069 5.0 -1.408 7.5 -0.497 10.0 -1.720	02.401 1.2 -1.266 2.5 -1.163 5.0 -1.473	0. 0.501 1.2 -0.709 2.5 -0.810 5.0 -1.138	00.184 1.2 -0.314 2.5 -0.548
1.2 -0 2.5 -0 5.0 -0 7.5 -1 10.0 -1 20.0 -1 20.0 -1 30.0 -1 40.0 -1 60.0 -1 61.5 -0 62.5 -2 70.0 -2 75.6 -3	0.738 0.936 0.965 1.362 1.504 1.617 1.731 1.702 1.759	1.2 -1.061 2.5 -1.111 5.0 -1.439 7.5 -1.514 10.0 -1.590 20.0 -1.590 25.0 -1.665	1.2 -0.752 2.5 -1.152 5.0 -1.476 7.5 -1.701 10.0 -1.826 15.0 -1.801	1.2 -0.887 2.5 -1.069 5.0 -1.408 7.5 -0.497 10.0 -1.720	1.2 -1.266 2.5 -1.163 5.0 -1.473	1.2 -0.709 2.5 -0.810 5.0 -1.138	1.2 -0.314 2.5 -0.548
2.5 -0 5.0 -1 10.0 -1 15.0 -1 20.0 -1 30.0 -1 30.0 -1 60.0 -1 60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.0 -3	0.936 0.965 1.362 1.504 1.617 1.731 1.702 1.759 1.617	2.5 -1.111 5.0 -1.439 7.5 -1.514 10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	2.5 -1.152 5.0 -1.476 7.5 -1.701 10.0 -1.826 15.0 -1.801	2.5 -1.069 5.0 -1.408 7.5 -0.497 10.0 -1.720	2.5 -1.163 5.0 -1.473	2.5 -0.810 5.0 -1.138	2.5 -0.548
5.0 -0 7.5 -1 10.0 -1 15.0 -1 20.0 -1 30.0 -1 50.0 -1 60.0 -1 61.5 -0 62.5 -3 70.0 -2 75.6 -3	0.965 1.362 1.504 1.617 1.731 1.702 1.759	5.0 -1.439 7.5 -1.514 10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	5.0 -1.476 7.5 -1.701 10.0 -1.826 15.0 -1.801	5.0 -1.408 7.5 -0.497 10.0 -1.720	5.0 -1.473	5.0 -1.138	
7.5 -1 10.0 -1 15.0 -1 20.0 -1 20.0 -1 30.0 -1 50.0 -1 60.0 -1 61.5 -0 65.0 -3 70.0 -2 75.6 -3	1.362 1.504 1.617 1.731 1.702 1.759	7.5 -1.514 10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	7.5 -1.701 10.0 -1.826 15.0 -1.801	7.5 -0.497 10.0 -1.720			
10.0 -1 15.0 -1 20.0 -1 30.0 -1 30.0 -1 50.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.6 -3	1.504 1.617 1.731 1.702 1.759 1.617	10.0 -1.514 15.0 -1.590 20.0 -1.590 25.0 -1.665	10.0 -1.826 15.0 -1.801	10.0 -1.720	7.5 -1.705		
45.0 -1 20.0 -1 25.0 -1 30.0 -1 40.0 -1 50.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.0 -1 75.6 -3	1.617 1.731 1.702 1.759 1.617	15.0 -1.590 20.0 -1.590 25.0 -1.665	15-0 -1-801				7.5 -1.016
20.0 -1 25.0 -1 30.0 -1 40.0 -1 50.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.6 -3	1.731 1.702 1.759 1.617	20.0 -1.590 25.0 -1.665			10.0 -1.653	10.0 -1.340	10.0 -1.068
25.0 -1 30.0 -1 40.0 -1 50.0 -1 60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.0 -1 75.6 -3	1.702 1.759 1.617	25.0 -1.665	20.0 -1.801	15.0 -0.393	15.0 -1.627	15.0 -1.390	15.0 -1.146
30.0 -1 40.0 -1 50.0 -1 60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.6 -3	1.759			20.0 -1.512	20.0 -1.627	20.0 -1.441	20.0 -1.198
40.0 -1 50.0 -1 60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.6 -3	1.617	30.0 -1.716	25.0 -1.850	25.0 -0.497	25.0 -1.679	25.0 -1.516	25.0 -1.250
50.0 -1 60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.6 -3			30.0 -1.850	30.0 -1.902	30.0 -1.731	30.0 -1.592	30.0 -1.276
60.0 -1 61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.0 -1 75.6 -3	1.589	40.0 -1.716	40.0 -1.850	40.0 -1.876	40.0 -1.731	40.0 -1.567	40.0 -1.302
61.5 -0 62.5 -2 65.0 -3 70.0 -2 75.0 -1 75.6 -3		50.0 -1.640	50.0 0.421	50.0 -1.824	50.0 -1.782	50.0 -1.617	50.0 -1.354
62.5 -2 65.0 -3 70.0 -2 75.0 -1 75.6 -3		60.0 -1.640	60.0 -1.701	60.0 -1.746	60.0 -1.756	60.0 -1.668	60.0 -1.458
65.0 -3 70.0 -2 75.0 -1 75.6 -3		61.5 -0.658	61.5 -0.952	61.5 -0.184	61.5 -0.183	61.5 -0.205	61.5 -0.704
70.0 -2 75.0 -1 75.6 -3		62.5 -2.975	62.5 -3.049	62.5 -1.174	62.5 -0.983	62.5 -0.709	62.5 -2.030 65.0 -2.913
75.0 -1 75.6 -3		65.0 -4.058	65.0 -4.147	65.0 -2.814 70.0 -2.788	65.0 -2.608 70.0 -2.608	65.0 -2.475 70.0 -2.727	70.0 -2.913
75.6 -3		70.0 -2.924 75.0 -1.539	70.0 -2.949 75.0 -1.701	75.0 -1.850	75.0 -1.705	75.0 -1.970	75.0 -0.834
		75.6 -3.579	75.6 -3.823	75.6 -0.783	75.6 -0.957	75.6 -0.734	75.6 -1.640
		76.3 -3.076	76.3 -3.548	76.3 -0.809	76.3 -1.370	76.3 0.401	76.3 -2.134
76.3 -3 77.1 0		77.1 -2.270	77.1 -2.000	77.1 -1.955	77.1 -1.576	77.1 0.401	77.1 -2.497
	0.454	78.6 0.803	78.6 0.746	78.6 0.623	78.6 0.642	78.6 0.602	78.6 0.128
80.0 -1		80.0 -1.287	80.0 -1.326	80.0 -1.616	80.0 -1.318	80.0 -1.365	80.0 -1.562
85.0 -1		85.0 -0.431	85.0 -0.727	85.0 -1.148	85.0 -0.957	85.0 -1.037	85.0 -1.718
90.0 -0		90.0 -0.280	90.0 -0.203	90.0 -0.341	90.0 -0.415	90.0 -0.356	90.0 -1.250
95.0 -0		95.0 -0.230	95.0 -0.078	95.0 -0.158	95.0 -0.286	95.0 -0.180	95.0 -0.600
	0.908	2.5 1.004	2.5 0.771	2.5 0.961	2.5 1.004	2.5 0.476	2.5 -0.314
	0.993	5.0 0.954	5.0 0.945	5.0 1.039	5.0 0.978	5.0 0.476	5.0 0.258
	1.022	7.5 0.853	7.5 0.920	7.5 0.935	7.5 0.307	7.5 0.476	7.5 0.648
	1.050	10.0 0.853	10.0 0.845	10.0 0.831	10.0 0.797	10.0 0.476	10.0 -0.418
	0.993	15.0 0.878	15.0 0.696	15.0 0.518	15.0 0.462	15.0 0.501	15.0 0.414
	0.710	20.0 0.727	20.0 0.621	20.0 0.492	20.0 0.462	20.0 0.476	20.0 0.284
	0.568	30.0 0.627	30.0 0.571	30.0 0.492	30.0 0.410	30.0 0.476	30.0 0.206
	0.568	50.0 0.627	50.0 0.571	50.0 0.518	50.0 0.410	50.0 0.451	50.0 0.284
	1.192_	65.0 0.979	65.0 0.945	65.0 0.961	65.0 0.926	65.0 1.006	65.0 0.856
	1.164	70.0 1.004	70.0 0.945	70.0 0.857	70.0 0.849	70.0 0.955	70.0 0.778
	0.454	76.8 1.055	76.8 0.072	76.8 0.831	76.8 0.849	76.8 0.451	76.8 0.752
	1.078	77-1 0-979	77.1 0.870	77.1 0.805	77.1 0.823	77.1 0.451	77.1 0.622
	0.908	80.0 0.803	80.0 0.796	80.0 0.961	80.0 0.978	80.0 0.930	80.0 0.959
	1.305	85.0 1.055	85.0 0.970	85.0 0.883	85.0 0.926	85.0 1.031	85.0 0.882
	1.305	90.0 1.080	90.0 0.995	90.0 0.753	90.0 0.771	90.0 0.930	90.0 0.726
		95.0 1.055	95.0 0.995	95.0 0.597	95.0 0.642	95.0 0.779	95.0 0.544
	1.220						
1 = 2.2		COEFFICIENT					1.79

MADIE	

RUN 26 POI	NT 18	Q = 8.00	ALPHA = 1	2 TCP =	0.	
VALVB 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
	00.658	0. 0.072	00.132	00.854	0. 0.577	01.094
0. 0.114 1.2 -1.333	1.2 -1.892	1.2 -1.251	1.2 -1.434	1.2 -1.860	1.2 -1.315	1.2 -1.432
	2.5 -2.244	2.5 -2.250	2.5 -2.163	2.5 -2.272	2.5 -1.718	2.5 -1.562
2.5 -2.014	5.0 -2.748	5.0 -2.924	5.0 -2.814	5.0 -2.608	5.0 -2.626	5.0 -1.978
5.0 -2.071	7.5 -2.723	7.5 -3.049	7.5 -0.861	7.5 -2.840	7.5 -2.727	7.5 -2.082
7.5 -2.837	10.0 -2.496	10.0 -3.198	10.0 -2.944	10.0 -2.659	10.0 -2.626	10.0 -2.056
10.0 -2.667	15.0 -2.521	15.0 -2.899	15.0 -0.601	15.0 -2.453	15.0 -2.525	15.0 -2.134
15.0 -2.695 20.0 -2.695	20.0 -2.345	20.0 -2.724	20.0 -2.527	20.0 -2.453	20.0 -2.500	20.0 -2.082
	25.0 -2.345	25.0 -2.699	25.0 -0.783	25.0 -2.530	25.0 -2.475	25.0 -2.082
25.0 -2.497		30.0 -2.599	30.0 -2.579	30.0 -2.505	30.0 -2.424	30.0 -2.056
30.0 -2.440	30.0 -2.320	40.0 -2.375	40.0 -2.345	40.0 -2.324	40.0 -2.273	40.0 -1.952
40.0 -2.071	40.0 -2.144	50.0 0.571	50.0 -2.137	50.0 -2.401	50.0 -2.222	50.0 -2.030
50.0 -1.901	50.0 -1.917	60.0 -2.000	60.0 -1.902	60.0 -2.195	60.0 -2.222	60.0 -2.238
60.0 -1.674	60.0 -1.539		61.5 0.050	61.5 -0.260	61.5 -0.079	61.5 -1.068
61.5 -0.567	61.5 -0.582	61.5 -0.727	62.5 -1.017	62.5 -1.163	62.5 -0.709	62.5 -2.108
62.5 -2.383	62.5 -2.950	62.5 -3.024	65.0 -2.866	65.0 -3.072	65.0 -3.332	65.0 -4.499
65.0 -3.632	65.0 -3.806	65.0 -4.147	70.0 -2.605	70.0 -2.943	70.0 -3.458	70.0 -4.577
70.0 -2.241	70.0 -2.748	70.0 -2.699		75.0 -2.092	75.0 -2.424	75.0 -0.574
75.0 -1.192	75.0 -1.489	75.0 -1.476	75.0 -1.668	75.6 -1.292	75.6 -0.961	75.6 -2.627
75.6 -3.291	75.6 -3.680	75.6 -3.723	75.6 -0.653	76.3 -1.756	76.3 0.476	76.3 -3.407
76.3 -3.149	76.3 -3.201	76.3 -3.398	76.3 -0.653		77.1 0.476	77.1 -3.979
77.1 0.568	77.1 -2.396	77.1 -1.900	77.1 -1.824	77.1 -1.963	78.6 0.678	78.6 -0.002
78.6 0.738	78.6 0.954	78.6 0.870	78.6 0.571	78.6 0.617	80.0 -1.743	80.0 -4.317
80.0 -1.419	80.0 -1.363	80.0 -1.226	80.0 -1.356	80.0 -1.731		85.0 -3.589
85.0 -1.617	85.0 -0.557	85.0 -0.652	85.0 -1.017	85.0 -1.266	85.0 -1.441	
90.0 -0.198	90.0 -0.129	90.0 -0.103	90.0 -0.315	90.0 -0.621	90.0 -0.482	90.0 -1.666 95.0 -0.886
95.0 -0.057	95.0 -0.204	95.0 -0.178	95.0 -0.132	95.0 -0.467	95.0 -0.154	
2.5 1.107	2.5 1.281	2.5 1.045	2.5 0.961	2.5 1.004	2.5 0.552	
5.0 1.107	5.0 1.281	5.0 1.045	5.0 0.961	5.0 1.055	5.0 0.552	5.0 0.882 7.5 0.752
7.5 1.107	7.5 1.181	7.5 0.995	7.5 0.961	7.5 0.359	7.5 0.552	
10.0 0.993	10.0 1.206	10.0 0.970	10.0 0.935	10.0 0.900	10.0 0.552	10.0 -1.952
15.0 0.908	15.0 1.231	15.0 0.895	15.0 0.701	15.0 0.436	15.0 0.577	15.0 0.518
20.0 0.851	20.0 0.929	20.0 0.821	20.0 0.701	20.0 0.436	20.0 0.577	20.0 0.388
30.0 0.766	30.0 0.853	30.0 0.771	30.0 0.701	30.0 0.462	30.0 0.577	30.0 0.284
50.0 0.681	50.0 0.803	50.0 0.746	50.0 0.675	50.0 0.436	50.0 0.577	50.0 0.414
65.0 1.362	65.0 1.206	65.0 1.120	65.0 0.961	65.0 1.055	65.0 1.409	65.0 1.167
70.0 1.135		70.0 1.120	70.0 0.857	70.0 0.823	70.0 1.182	70.0 0.908
76.8 0.596		76.8 0.147	76.8 0.805	76.8 0.823	76.8 0.527	76.8 0.804
77.1 0.937		77.1 0.995	77.1 0.779	77.1 0.823	77.1 0.527	77.1 0.596
80.0 0.965	80.0 1.004	80.0 0.995	80.0 0.961	80.0 1.029	80.0 1.182	80.0 1.167
85.0 1.050	85.0 1.281	85.0 1.095	85.0 0.909	85-0 0-849	85.0 1.182	85.0 0.959
90.0 1.050		90.0 1.070	90-0 0-831	90.0 0.694	90.0 1.056	90.0 0.726
95.0 1.022		95.0 0.945	95.0 0.701	95.0 0.513	95.0 0.905	95.0 0.492
TOTAL NORMAL						
N = 2.72	2.88	2.57	2.59	2.79	2.89	2.78

VALVE 1					T	ABLE V-L	8						
100X   CP	RUN 26	POINT 20		.Q ∈=	7.94	AL	PHA = 2	0	TCP =	0.			
1.2 - 1.601				VALV	E 4	VALV	E 5	VALV		VALV	E 7	VALV	
1.2 -1.601  1.2 -2.210  1.2 -1.412  1.2 -1.733  1.2 -1.159  1.2 -1.553  1.2 -1.573  2.5 -2.601  2.5 -2.612  2.5 -2.642  2.5 -2.619  2.5 -2.512  2.5 -2.601  2.5 -2.112  2.5 -1.835  5.0 -2.430  5.0 -3.149  5.0 -3.373  5.0 -3.281  5.0 -2.783  5.0 -3.217  7.5 -3.202  7.5 -3.209  7.5 -3.449  7.5 -0.999  7.5 -2.861  7.5 -3.256  7.5 -2.464  10.0 -3.001  10.0 -2.769  15.0 -3.374  15.0 -3.001  15.0 -2.769  15.0 -3.248  15.0 -0.658  15.0 -2.809  15.0 -2.2732  10.0 -2.516  20.0 -2.816  25.0 -2.166  25.0 -2.540  25.0 -2.971  25.0 -0.868  25.0 -2.861  25.0 -2.264  25.0 -2.373  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.439  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.430  30.0 -2.307  40.0 -2.144  40.0 -2.236  40.0 -2.344  40.0 -2.246  40.0 -2.346  40.0 -2.346  40.0 -2.346  40.0 -2.347  40.0 -2.448  40.0 -2.246  50.0 -1.957  50.0 -3.755  50.0 -2.100  50.0 -2.653  40.0 -2.511  60.2 -2.773  60.0 -1.575  60.0 -2.575  60.0 -2.576  60.0 -2.341  60.0 -2.417  60.0 -2.316  61.5 -0.343  61.5 -0.561  61.5 -0.561  61.5 -0.657  61.5 0.103  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.288  61.5 -0.343  65.0 -2.783  65.0 -3.781  65.0 -3.781  65.0 -3.781  65.0 -3.781  65.0 -3.781  76.0 -0.943  77.1 -2.200  77.1 -1.688  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.608  77.1 -1.609  77.1 -2.200  77.5 -0.0 -2.209  80.0 -1.172  80.0 -1.173  80.0 -1.294  80.0 -1.295  80.0 -1.174  80.0 -1.295  70.0 -0.688  70	100X C			100X				100X	CP	100X	CP	100X	CP
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0. 0.					_ 0•	-0.290						
7.5 - 2.430	1.2 -1.	601 1.2	-2.210	1.2	-1.412								
7.5 - 3. 202  7.5 - 3.099  7.5 - 3.449  7.5 - 0.999  7.5 - 2.861  7.5 - 3.256  7.5 - 2.464  10.0 - 3.001  10.0 - 2.759  10.0 - 3.549  10.0 - 3.307  10.0 - 2.757  10.0 - 3.052  10.0 - 2.438  15.0 - 3.001  15.0 - 2.616  20.0 - 2.996  20.0 - 2.756  20.0 - 2.887  20.0 - 2.824  20.0 - 2.438  25.0 - 2.610  25.0 - 2.971  25.0 - 0.868  25.0 - 2.861  25.0 - 2.798  25.0 - 2.308  20.0 - 2.630  30.0 - 2.439  30.0 - 2.770  30.0 - 2.730  30.0 - 2.705  30.0 - 2.671  30.0 - 2.307  40.0 - 2.144  40.0 - 2.236  40.0 - 2.443  40.0 - 2.444  40.0 - 2.235  40.0 - 2.243  50.0 - 1.858  50.0 - 1.957  50.0  0.575  50.0 - 2.100  50.0 - 2.601  50.0 - 2.417  50.0 - 2.307  40.0 - 2.144  40.0 - 2.236  40.0 - 2.443  40.0 - 2.444  40.0 - 2.236  40.0 - 2.443  40.0 - 2.444  40.0 - 2.236  40.0 - 2.443  40.0 - 2.444  40.0 - 2.236  40.0 - 2.443  40.0 - 2.441  40.0 - 2.2510  40.0 - 2.417  50.0 - 2.233  40.0 - 1.543  40.0 - 1.500  40.0 - 2.000  40.0 - 1.890  40.0 - 2.341  40.0 - 2.2510  40.0 - 2.2410  40.0 - 2.2510  40.0 - 2.417  50.0 - 2.333  40.0 - 1.543  40.0 - 2.5510  40.0 - 2.341  40.0 - 2.5510  40.0 - 2.417  40.0 - 2.5510  40.0 - 2.5510  40.0 - 2.5510  40.0 - 2.5510  40.0 - 2.5510  40.0 - 2.5	2.5 -2.												
10.0 -3.001													
15.0 - 3.001	7.5 -3.												
20.0 -2.973													
25.0 -2.716													
100													
\$\frac{40.0}{-2.144}\$\$ 40.0 \cdot -2.236  40.0 \cdot -2.441  40.0 \cdot -2.653  40.0 \cdot -2.519  40.0 \cdot -2.228  50.0 \cdot -1.885  50.0 \cdot -1.885  50.0 \cdot -1.885  50.0 \cdot -1.595  50.0 \cdot -2.575  50.0 \cdot -2.401  50.0 \cdot -2.417  60.0 \cdot -2.341  60.0 \cdot -2.417  60.0 \cdot -2.516  61.5 \cdot -0.561  61.5 \cdot -0.567  61.5 \cdot -0.657  61.5 \cdot -0.657  61.5 \cdot -0.654  61.5 \cdot -0.654  61.5 \cdot -0.561  61.5 \cdot -0.561  61.5 \cdot -0.561  61.5 \cdot -0.561  61.5 \cdot -0.567  61.5 \cdot -0.565  61.5 \cdot -0.564  61.5 \cdot -0.565  62.5 \cdot -1.889  62.5 \cdot -0.765  62.5 \cdot -1.488  62.5 \cdot -0.765  62.5 \cdot -1.488  65.0 \cdot -2.417  65.0 \cdot -2.524  65.0 \cdot -2.342  70.0 \cdot -2.305  65.0 \cdot -3.484  65.0 \cdot -5.240  70.0 \cdot -1.400  70.0 \cdot -2.342  70.0 \cdot -2.310  70.0 \cdot -3.095  70.0 \cdot -3.095  75.0 \cdot -1.398  75.0 \cdot -1.235  75.0 \cdot -0.481  75.0 \cdot -1.235  75.0 \cdot -0.481  75.0 \cdot -2.830  75.6 \cdot -3.225  75.6 \cdot -0.658  75.6 \cdot -0.694  75.6 \cdot -2.830  75.6 \cdot -3.228  75.6 \cdot -0.658  75.6 \cdot -0.694  75.6 \cdot -2.830  75.6 \cdot -3.2895  75.6 \cdot -0.658  75.6 \cdot -0.694  75.6 \cdot -2.830  75.6 \cdot -3.2895  75.6 \cdot -0.658  75.6 \cdot -0.658  75.6 \cdot -0.658  75.6 \cdot -0.658  75.6 \cdot -0.683  75.6  -1.220  77.1  -2.210  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1  -1.220  77.1													
50.0         -1.858         50.0         -1.957         50.0         0.575         50.0         -2.100         50.0         -2.601         50.0         -2.417         50.0         0.2.333           60.0         -1.543         60.0         -1.500         60.0         -2.040         60.0         -2.341         60.0         -2.417         60.0         -2.338           62.5         -2.029         62.5         -2.743         62.5         -2.594         62.5         -0.789         62.5         -1.188         62.5         -0.765         62.5         -2.594         62.5         -0.765         65.0         -3.816         65.0         -3.700         65.0         -2.520         65.0         -3.095         65.0         -3.846         65.0         -5.700         70.0         -2.310         70.0         -3.095         70.0         -3.764         70.0         -5.371         76.0         -0.943         75.0         -1.238         75.0         -1.481         75.0         -0.948         75.0         -1.388         75.0         -0.684         75.0         -1.328         75.0         -0.684         75.0         -1.328         75.0         -0.694         75.0         -0.994         75.0         -3.322         75.6 <td></td>													
60.0 -1.543 60.0 -1.500 60.0 -2.040 60.0 -1.890 60.0 -2.341 60.0 -2.417 60.0 -2.516 61.5 -0.343 61.5 -0.561 61.5 -0.657 61.5 0.103 61.5 -0.288 61.5 -0.765 61.5 -1.338 62.5 -2.029 62.5 -2.743 62.5 -2.594 62.5 -0.789 62.5 -1.198 62.5 -0.765 62.5 -2.149 65.0 -2.773 65.0 -3.581 65.0 -3.700 65.0 -2.520 65.0 -3.095 65.0 -3.484 65.0 -5.240 70.0 -1.400 70.0 -1.400 70.0 -2.616 70.0 -2.342 70.0 -2.310 70.0 -3.095 70.0 -3.764 70.0 -5.371 75.0 -0.943 75.0 -1.398 75.0 -1.235 75.0 -1.418 75.0 -2.107 75.0 -2.646 75.0 -0.683 76.6 -2.2830 75.6 -3.225 75.6 -3.222 75.6 -0.658 75.6 -1.328 75.6 -0.94 75.6 -3.225 75.6 -3.222 75.6 -0.658 75.6 -1.328 75.6 -0.94 75.6 -3.225 75.6 -3.225 75.6 -0.658 75.6 -1.328 75.6 -0.94 75.6 -3.225 75.6 -0.658 75.6 -1.328 75.6 -0.94 75.6 -2.883 76.3 -2.601 76.3 -2.18 76.3 -2.895 76.3 -0.684 76.3 -1.796 76.3 0.480 76.3 -3.721 77.1 -0.629 77.1 -2.210 77.1 -1.688 77.1 -1.602 77.1 -2.003 77.1 -2.003 77.1 -2.003 77.1 -2.003 77.1 -2.003 77.1 -2.00 77.													
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5.0         1.115         5.0         1.367         5.0         0.953         5.0         1.021         5.0         1.089         5.0         0.531         5.0         0.888           7.5         1.144         7.5         1.291         7.5         0.923         7.5         1.021         7.5         0.362         7.5         0.531         7.0         0.848           10.0         0.972         10.0         1.291         10.0         0.928         10.0         0.995         10.0         0.531         10.0         1.91           20.0         0.912         10.0         1.317         15.0         0.877         15.0         0.732         15.0         0.440         15.0         0.556         15.0         0.574           20.0         0.941         20.0         0.852         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452         20.0         0.452													
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50.0         0.744         50.0         0.860         50.0         0.777         50.0         0.706         50.0         0.440         50.0         0.607         50.0         0.417           65.0         1.313         65.0         1.317         65.0         1.021         65.0         1.036         65.0         1.395         65.0         1.281           70.0         1.173         70.0         1.190         70.0         1.053         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         70.0         0.916         80.0         0.978         80.0         0.942         85.0         0.9777         85.0         0.2777         85.0         1.217         80.0         1.227         85.0         0.993         90.0         0.962         90.0         0.962         90.0         0.978         80.0         0.942         85.0         0.7777         85.0         1.217         80													
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95.0 1.087 95.0 0.987 95.0 0.953 95.0 0.759 95.0 0.492 95.0 0.887 95.0 0.417													
				42.0	0.953	45.0	0.759	95.0	0.492	42.0	U + 68 f	95.0	0.417
				-	4.2	-	44		40.0	2	12		2.00

	A. A. Sagari, A. A., Sec					
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
10GX CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CF
00.468	02.807	03.557	03.125	05.365	0. 0.624	02.3
1.2 -0.909	1.2 -1.591	1.2 -0.932	1.2 -1.105	1.2 -1.941	1.2 -1.072	1.2 -1.2
2.5 -0.909	2.5 -1.635	2.5 -1.621	2.5 -1.554	2.5 -2.118	2.5 -1.072	2.5 -1.1
5.0 -0.909	5.0 -2.199_		5.0 -2.362	5.0 -2.474	5.0 -1.115	5.0 -1.1
7.5 -1.740	7.5 -2.330	7.5 -2.783	7.5 -0.657	7.5 -3.141	7.5 -1.202	7.5 -1.1
10.0 -1.740	10.0 -2.243	10.0 -2.955	10.0 -2.901	10.0 -3.008	10.0 -1.289	10.0 -1.2
15.0 -2.034	15.0 -2.416	15.0 -2.912	15.0 -0.522	15.0 -2.919	15.0 -2.159	
20.0 -2.279	20.0 -2.416	20.0 -2.869	20.0 -2.452	20.0 -2.875	20.0 -2.159	20.0 -1.4
25.0 -2.279	25.0 -2.547	25.0 -2.955	25.0 -0.701	25.0 -3.008	25.0 -2.333	25.0 -1.5
30-0 -2-465	30.0 -2.720	30.0 -2.955		30.0 -3.186	30.0 -2.507	30.0 -1.6
40.0 -2.279	40.0 -2.764	40.0 -2.912	40.0 -3.035	40.0 -3.230	40.0 -2.594	40.0 -1.6
50.0 -2.328	50.0 -2.677	50.0 0.703	50.0 -2.990	50.0 -3.497	50.0 -2.811	50.0 -1.8
60.0 -2.376	60.0 -1.765	60.0 -2.740	60-0 -2-990	60.0 -3.542	60-0 -3-072	60.0 -2.0
61.5 -1.496	61.5 -1.114	61.5 -1.621	61.5 -0.073	61.5 -0.873	61.5 -0.202	61.5 -0.6
62.5 -4.431	62.5 -5.760	62.5 -5.968	62.5 -1.823	62.5 -2.207	62.5 -1.159	62.5 -1.5
65.0 -7.04	65.0 -7.887	65.0 -8.679	65.0 -5.683	65.0 -5.676	65-0 -5-246	65.0 -4.1
70.0 -4.969	70.0 -6.151	70.0 -6.570	70.0 -5.953	70.0 -5.721	70.0 -6.160	70.0 -4.1
75.0 -2.963	75.0 -3.372	75.0 -4.031	75.0 -4.023	75.0 -4.120	75.0 -4.420	75.0 -1.9
75.6 -8.198	75.6 -8.799	75.6-10.401	75.6 -1.734	75.6 -2.830	75.6 -1.637	75.6 -2.4
	70.3 -7.757	76.3 -9.540	76.3 -1.734	76.3 -4.075	76.3 0.581	76.3 -3.2
77-1 0-755		77.1 -5.623	77-1 -1-689	77.1 -4.476	77.1 0.624	77-1 -3-8
78.6 1.949	78.6 2.360	78.6 2.081	78.6 1.947	78.6 1.439	78.6 1.494	78.6 0.3
	80.0 -2.937		80.0 -3.753	80.0 -4.164	80.0 -3.072	80-0 -4-
85.0 -3.599	85.0 -0.897	85.0 -1.147	85.0 -2.766	85.0 -3.008	85.0 -2.376	85.0 -4.1
90.0 -0.811	90.0 -0.549	90.0 -0.243	90.0 -0.701	90.0 -1.318	90.0 -0.680	90.0 -2.
95-0 -0-077	95.0 -0.462	95.0 -0.329			95.0 -0.115	
2.5 0.5.0	2.5 2.881	2.5 1.952	2.5 2.171	2.5 2.596	2.5 0.624	2.5 -0.4
5.0 1.293	5.0 2.534	5.0 2.425	5.0 2.440	5.0 2.151	5.0 0.624	5.0 0.5
7.5 1.537		7.5 2.124		7.5 0.639	7.5 0.624	7.5 0.7
10.0 1.635	10.0 2.013	10.0 1.779	10.0 1.632	10.0 1.751	10.0 0.624	10.0 -1.1
15.0 1.391	15.0 1.882	15.0 1.349	15.0 0.914	15.0 0.372	15.0 0.624	15.0 0.
20.0 1.195		20.0 i.091	20.0 0.825	20.0 0.372		20.0 0.
30.0 0.852	30.0 1.057	30.0 0.919	30.0 0.735	30.0 0.417	30.0 0.668	30.0 0.
50.0 0.852	50.0 1.405	50.0 1.306	50.0 1.094	50.0 0.639	50.0 0.972	50.0 0.4
65.0 2.907	65-0 2-838			65.0 2.596	65.0 2.407	65.0 1.0
70.0 2.516	70.0 2.924	70.0 2.683	70.0 2.306	70.0 2.151	70.0 2.320	70.0 1.
76.8 0.755	76.8 3.142	76.8 0.316	76.8 2.485	76.8 2.062	76.8 0.755	76.8 1.
77.1 2.858	77.1 2.881	77.1 2.425	77.1 2.395	77.1 2.062	77.1 0.755	77.1 1.
80.0 2.124	80.0 2.360	80.0 2.339	80.0 2.844	80.0 2.774	80.0 2.277	80.0 1.
85.0 3.445	85.0 3.142	85.0 2.726	85.0 2.351	85.0 2.551	85.0 2.581	85.0 1.0
90.0 3.103		90-0 2-683	90.0 1.812	90.0 2.151	90.0 2.320	90.0 1.
95.0 2.5.6		95.0 2.425	95.0 1.363	95.0 1.884	95.0 1.929	95.0 1.0
TOTAL NORMAL				20001		
* 3.74		2 00	4.26	4,55	3.81	2.80

					TABL	E V-50							
RUN	28, PO	INT 6		Q = 4.	64	Al	LPHA = 1	2	TCP =	1.00			
VALV	E 1	VAL		VALVE	4	VAL	VE 5	VALV	E 6	VALV	/E 7	VAL	/E 8
100X	CP	100X	CP	100X	ÇP	100X	CP	200X	CP	200X	ÇP	100X	CP
	-1-104		-3.111	O			-0.297		-2.963	. 0.	0.711		-1.776
	-1.643		-2.677	1.2 -			-2.003		-2.963		-2.029		-1.776
	-1.545		-3.111	2.5 -			-3.080		-3.186		-2.376		-1.866
	-1.643		-3.893				-4.157		-3.764		-3.464		-2.403
	-3.502		-3.762	7.5 -4			-1.195		-4.120		-3.681		-2.583
	-3.404		-3.458	10.0 -4			-4.516		-3.808		-3,551		-2.627
	-3.551		-3.762	15.0 -4			-0.836		-3.675		-3,681		-2.762
	-3.648 -3.453		-3.719 -3.849	20.0 -4			-3.933 -1.150		-3.764 -4.164		-4.290 -4.029		-2.717 -2.717
	-3.453		-3-806	30.0 -4			-4.112		-4.476		-3.898		-2.717
	-2,915		-3.545	40.0 -			-3.753		-4.342		-3.768		-2.717
	-2.719		-3.241	50.0			-3.529		-4.476		-3.855		-2.85
	-2.543			60.0 -			-3.260		-4.298		-4.116		-3.120
	-1.887		-1.591	61.5 -			-0.028		-1.185		-0.637		-2.134
	-4.529		-6.455	62.5 -			-1.913		-2.697		-1.681		-1.417
	-5-899		-8.322	65-0 -			-5.055		-6-566		-6.812		-6.750
70.3	-3.746	70.0	-6.020	70.0 -4	935		-4.831	70.0	-6.699	70.0	-7.682	70.0	-6.392
75.0	-2.132	75.0	-3.589	75.0 -	2.568		-3.080	75.0	-5.098	75.0	-5.812	75.0	-1.685
75.6	-6.290	75.6	-8.930	75.6 -6	3.206	75.6	-1.240	75.6	-3.808	75.6	-2.246	75.6	-4.958
76.3	-5.263	76.3	-7.193	76.3 -	-044	76.3	-1.240	76.3	-5.054	76.3	0.624		-6,257
77.1	0.803	77.1	-5.890	77.1 -4			-1.240		-5.410	77.1			-7.109
78.6	2.026	78.6	2.360	78.6			1.991		1.484	78.6	1.972		0.420
	-2.641		-3.458	80-0 -2			-2.721		-5-143		-4-290		-7.960
	-2.719		-1.287	85.0 -			-2.003		-3.586		-3.333		-7.378
	-0.664		-0.202	90.0 -0			-0.612		-1.496		-1.115		-3.972
	=0-126		-0.202	95.0 -0			-0.297		-0.873		-0.507		-2.134
2.5	2.418	2.5	3.532		2.124	2.5	0.914	2.5	3.218	2.5	0.668	2.5	
5.0	1.880	5.0	3.185 2.751	5.0 2 7.5	779	5.0	1.004	5.0	2.818	5.0 7.5	0.668	5.0	0.958
10.0	1.439	7.5	2,577		.306	7.5	1.049	10.0	2-107	10.0	0.668		-0.969
15.0	0.999	15.0	2.403		1.134	15.0	0.825	15.0	0.417	15.0	0.755	15.0	0.510
20.0	0.961	20.0	1.578	20.0			0.914		3.505		0.755		0.285
30.0	3.852	30.0	1,231		876	30.0	0.869	30.0	0.550	30.0	0.711	30.0	0.106
50.0	0.901	50.0	1.274		962	50.0		50.0	0.550	50.0	0,885	50.0	0.241
65.0	3.846		3.446						3.041	65.0		65.0	
70.0	2.711	70.0	2.968		2.554	70.0	1.767	70.0	2.195	70.0	3.016	70.0	1.675
76.8	0.803	76.8	2.838		273	76.8	2.351	76.8	2.195	76.8	0.711	76.8	1.764
77.1	2.760	77.1	2.794		2.640	77.1	2.306	77.1	2.329	77.1	0.711	77.1	1.540
80.0	2.858	80.0	2.968		2.942	80.0	2.620	80.0	2.996	80.0	2.929	80.0	2.750
85.0	2.467	85.D	2.620		2.511	85.0		85.0	2.240	85.0	3.190	85.0	1.988
90.0	2.075		2,317		.779	90.0	1.184	90.0	1.528	90.0	2.798	90.0	1.406
95.0	1.684	95.0	4.578	95.0	.306	95.0	0.869	95.0	0.906	95.0	2.233	95.0	0.823
	NORMAL									_			
=4	.09		34	4.	2.8		4.26		.47		-31		29

RUN	28, PO	INT 8	Q = 4.70	ALPHA = 2	0 TCP =	1.00	
VALV	/E 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100x	CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
_0.	0.262	01.871	0. 0.057	00.959	02.750	0. 0.659	00.825
	-1.0719	1.2 -3.157	1.2 -1.983	1.2 -2.864	1.2 -3.233	1.2 -2.346	1.2 -2.152
2.5	-2.685	2.5 -3.672	2.5 -3.767	2.5 -4.105	2.5 -3.804	2.5 -3.119	2.5 -2.506
	-2.685	5.0 -4.272	5.0 -4.787	5.0 -4.991	5.0 -4.199	5.0 -4.708	5.0 -3.169
	-4.085	7.5 -4.186	7.5 -5.000	7.5 -1.402	7.5 -4.419	7.5 -5.008	7.5 -3.391
	-3.892	10.0 -3.500	10.0 -5.127	10.0 -4.858	10.0 -4.111	10.0 -4.665	10.0 -3.302
	-3.989	15.0 -4.186	15.0 -4.617	15.0 -0.870	15.0 -4.111	15.0 -4.235	15.0 -3.346
	-3.892	20.0 -4.101	20.0 -4.192	20.0 -3.927	20.0 -4.331	20.0 -5.008	20.0 -3.258
	-3,457	25.0 -3.843	25.0 -4.065	25.0 -1.047	25.0 -4.770	25.0 -4.708	25.0 -3.214
	-3.312	30.0 -3.543	30.0 -3.682	30.0 -3.750	30.0 -4.770	30.0 -4.450	30.0 -3.214
	-2.685	40.0 -3.243	40.0 -3.215	40.0 -3.307	40.0 -4.463	40.0 -4.192	40.0 -3.214
	-2,250	50.0 -2.857	50.0 0.652	50.0 -2.953	50.0 -4.551	50.0 -4.192	50.0 -3.346
	-2.057	60.0 -2.815	60.0 -2.705	60.0 -2.642	60.0 -4.199	60.0 -4.364	60.0 -3.612
	-0.898	61.5 -0.843	61.5 -1.005	6.05 0.105	61.5 -1.301	61.5 -1.187	61.5 -2.108
	-2,346	62.5 -3.543	62.5 -3.470	62.5 -1.180	62.5 -2.487	62.5 -1.702	62.5 -1.400
	-3.602	65-0 -4-486	65.0 -4.575	65.0 -3.529	65.0 -5.912	65.0 -7.155	65.0 -7.240
	-2,443	70.0 -3.157	70.0 -2.790	70.0 -3.130	70.0 -5.956	70.0 -8.099	70.0 -8.124
	-1.187	75.0 -1.571	75.0 -1.430	75.0 -1.801	75.0 -4.33i	75.0 -5.953	75.0 -1.754
75.6	-4.278	75.6 -4.186	75.6 -4.575	75.6 -0.649	75.6 -3.277	75.6 -2.518	75.6 -4.497
_76.3.	-3.409	76.3 -2.900	76.3 -3.810	76.3 -0.649	76.3 -3.892	76.3 0.487	76,3 -5,603
77.1	0.745	77.1 -2.300	77.1 -2.195	77.1 -0.693	77.1 -4.111	77.1 0.487	77.1 -6.664
78.6	1.662	78,6 1,429	78.6 1.586	78.6 1.788	78.6 1.113	78.6 1.947	78.6 0.680
	139	80.0 -1.786	80.0 -1.855	80.0 -1.535	80.0 -4.068	80.0 -4.665	80.0 -6.664
85.0	-1.236	85.0 -0.585	85.0 -0.920	85.0 -1.225	85.0 -2.531	85.0 -3.549	85.0 -6.443
	-0.270	90.0 -0.243	90.0 -0.156	90.0 -0.294	90.0 -1.126	90.0 -1.101	90.0 -3.921
	0.020	95.0 -0.028	95.0 0.142	95.0 -0.205	95.0 -0.643	95.0 -0.543	95.0 -2.550
2.5	8د9 و0	2.5 3.573	2.5 0.737	2.5 0.902	2.5 3.001	2.5 0.616	2.5 0.857
5.0	0.986	5.0 3.187	5.0 0.864	5.0 0.947	5.0 2.650	5.0 0.616	5.0 0.857
	0.938	7.5 2.758	7.5 0.949	7.5 1.035	7.5 0.762	7.5 0.616	7.5 0.768
10.0	0.889	10.0 2.630	10.0 1.034	10.0 1.035	10.0 1.948	10.0 0.616	10.0 -0.825
15.0	0.938	15.0 2.458	15.0 0.949	15.0 0.681	15.0 0.279	15.0 0.659	15.0 0.503
-20.0	0.889	20.0 1.472	20.0 0.864	20.0 0.769	20.0 0.499	20.0 0.702	
30.0	0.793	30.0 1.258	30.0 0.822	30.0 0.814	30.0 0.586	30.0 0.659	30.0 0.149
50°0	0.889	50.0 1.086	50.0 0.949	50.0 0.814	50.0 0.279	50.0 0.745	50.0 0.326
65.0	3.208	65.0 2.329	65.0 2.394	65.0 2.099	65.0 2.694	65.0 3.535	65.0 2.361
70.0	2.049	70.0 1.729	70.0 1.671	70.0 1.611	70.0 1.289	70.0 3.020	70.0 1.432
76.8	0.745	76.8 1.815	76.8 0.312	76.8 2.099	76.8 1.113	76.8 0.616	76.8 1.609
77.1	2.242	77.1 1.772	77.1 1.756	77.1 2.054	77.1 1.640	77.1 0.616	77-1 1-653
80.0	2.242	80.0 1.644	80.0 2.054	80.0 2.409	80.0 1.772	80.0 3.106	80.0 2.626
85.0	1.855	85.0 1.901	85.0 1.459	85.0 1.478	85.0 0.806	85.0 3.106	85.0 1.476
90.0		90.0 1.772	90.0 1.119	90.0 1.080	90.0 0.543	90.0 2.633	90.0 0.812
95.0	1.276	95.0 1.301	95.0 0.907	95.0 0.814	95.0 0.411	95.0 1.990	95.0 0.370
TOTAL		COEFFICIENT	3.50	3.68	4.96	5.68	4056

					TABL	E V-52							
RUN	27, PO	INT 3		Q =	4.52	A	LPHA =	0	TCP =	2.50			
	VE 1	VALV		VALV			VE 5	VALV	/E 6	VAL	VE 7	VAL	/E 8
100x		T00X	C.P	100X	CĐ	100X	CP	100x	ÇP	100X	CP	T00X	CP
	-lali3		-6.447	. 0.	-4,225	0.	-5,235	0.	-8.840	0.	1.043	0.	-3.984
	-1.083		-2.212		-1.089	1.2	-1.364	1.2	-2.813	1.2	-1.814	1.2	-1.638
	-2.083		-1.945		-1.972		-1.917	2.5	-2.494	2.5	-1.858	2.5	-1.270
	-1.083		-2.926		-3,165		-3.023		-3,270		0.954	5.0	-1.178
	-1.836		-3.193		-3.563		~0 <sub>0</sub> 996		-4.046	7.5	0.284	7.5	-1.224
	-2.037		-2.970		-4.005		-3,991		-3.863	10.0	-1.010	10.0	-1.408
	-2,539		-3,327				-0.765	15.0	-3,726		-2,126	15.0	-1.684
	-2.94+		-3.371		-3.784		-3.852		-3-772		-2.707		-1.822
	-2.99		-3.639		-4.093		-1.134		-4.137		-3.108	25.0	-2.144
	-3,192		-3.817		-4.093		-4.359		-4-365	30.0	-3,421		-2.098
	-3.041		-3.817		-3.916		-4.221		-4.457		-3,599	40.0	-2.144
	-3.242		-3.772		1.165		-4。267		-4。959		-4.046		-2.190
	-3.443		-4.040		-3.828		-4.405		-5.187		-4,537		-2,328
	-2.489		-1.811		-2.149		0.617		-1.307		-0.251		-0.810
	-7.009		-9,344		-9.395		-2,470		-3.589		-2.172	62.5	-2.926
	-11.780		.2.910		13.813		-8.644		-8.885		-8.331		-4.905
	-8.867		10.057		10.764		-9,565		-9-159		-9,894		-5.043
	-5.603		-6.001		-6.744		-6,571		-6.968		-6.992		-2.006
	-15.647		16.521		19.468		-2.885		-4.731		-2.483		-2.696
	-13.588		13.712		17.613		-2.931		-6.694		0.954		
77.1			10.592		10.941		-2.885		-7.561	77.1	0.909		-4.260
78.6			4.340		3.904		3.704		3.213	78.6	2,204	78.6	0.432
	-7.059		-5.867		-7,097		-6.617		-6.739		-4.671		-4.813
	-7-159		-1.811		-2.723		-5.096		-4.822		-3.465		-4.813
	-1.233		-1.098		-0.603		-1.180		-1.763		-0.876		-2.696
	-0.504		-0.920		-0.912		-0.212		-0.759		0.240		-1.408
	-0.681	2.5	5.187	2.5	2.137	2.5		2.5			0.954		0.478
	-0.581	5.0	4.429	5.0	3.506	5.0	4.118	5.0	4.629	5.0		5, 0	
	0.474	7.5		7.5	3,374	7.5			1.661		0.999		0.754
10.0		10.0	3.181	10.0	2.799	F0.0	3.059	10.0	3.213	10.0			-2.512
15.0		15.0	3.047	15.0	1.872	15.0	1.446	15.0	0.794	15.0	1.043	15.0	0.573
20.0		20.0	2.111		1.341	20.0			0.931	20.0			0.386
30.0		30.0	1.487	30.0	1.121	30.0	0.893	30.0	0.839	30.0	1.043	30.0	0.340
50.0		50.0	2.334	50.0	2.358	50.0	2.091	50.0	1.204	50.0	1.445	50. O	0.340
65.0		65.0	5.187	65.0		65.0	5.224	65.0	5.131		2.829		0.984
70.0		70.0	5.410	70.0	4.964	70.0	4.441	70.0	4.309	70.0	3.275	70.0	1.076
76.8		76.8	5.811	76.8	0.237	76.8	4.737	76.8	4.720	76.8	1.088	76.8	1.306
77.1	4.793	77.1	5.232	77.1	4.655	77.1	4.487	77.1	4.492	77.1	1.043	77.1	1.076
80.0		80.0	4.251	80.0	4.302	80.0	5.316	80.0	5.542	80.0	3.677	80.0	1.766
85.0		85.0	5.811	85.0	5.274	85.0	4.303	85.0	4.994	85.0	4.748	85.0	1.674
90.0		90.0	5.856	90.0	5.009	90.0	3,427	90.0	4.492	90.0	4.123	90.0	1.398
95.0		95.0	5.588	95.0	4.346	95.0	2.460	95.0	3.715	95.0	3,632	95.0	1.030
	NORMAL		01EN1	6	20		586	,	- 40		5.4R		.10

RUN 27, POI		Q = 4.40	ALPHA = 1		2.50	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	100X CP	130X CP	100X CP	100X CP
05.290_	06.164	00 -30341	00.360	08.236	0. 0.797	0. 0.161
1.2 -2.094	1.2 -3.554	1.2 -2.615	1.2 -2.537	1.2 -4.484	1.2 -2.688	1.2 0.019
2.5 -2.092	2.5 -4.103	2.5 -4.431	2.5 -3.862	2.5 -4.624	2.5 -2.780	2.5 -0.123
5.0 -2.195	5.0 -5.294	5.0 -5.747	5.0 -5.424	5.0 -5.234	5.0 -3.468	5.0 -0.312
7.5 -3.743	7,5 -5,111	7.5 -6.292	7.5 -1.543	7.5 -5.891	7.5 -3.880	7.5 -0.548
10.0 -4.00.	10.0 -4.561	10.0 -6.655	10.0 -6.086	10.0 -5.515	10.0 -3.972	10.0 -1.021
15.0 -4.413	15.0 -4.973	15.0 -5.974	15.0 -1.069	15.0 -5.422	15.0 -4.843	
20.0 -4.671	20.0 -5.019	20.0 -5.565	20.0 -5.424	20.0 -5.609	20.0 -4.981	20.0 -2.063
25.0 -4.465	25.0 -5.157	25.0 -5.656	25.0 -1.637	25.0 -6.219	25.0 -5.118	25.0 -2.769
30.0 -4.465	30.0 -5.248	30-0 -5-384	30.0 -5.660	30.0 -6.407	30.0 -5.210	30-0 -3-431
40.0 -3.897	40.0 -5.065	40.0 -5.066	40.0 -5.282	40.0 -6.407	40.0 -5.118	40.0 -3.384
50.0 -3.897	50.0 -4.607	50.0 0.970	50.0 -5.140	50.0 -6.876	50.0 -5.485	50.0 -3.623
60.0 -3.897_		60-0 -4-703		60.0 -6.782	60.0 -5.944	60.0 -3.951 61.5 -2.913
61.5 -2.917	61.5 -3.142	61.5 -2.933	61.5 0.303	61.5 -1.857 62.5 -4.202	62.5 -1.908	62.5 -2.438
62.5 -6.838	62.5-10.422	62.5 -8.516	62.5 -2.489 65.0 -8.406	65.0-10.862	65.0-10-117	65.0 -3.573
.65.0-11.0.7_ 70.0 -8.148	70.0-10.239	70.0 -9.333	70.0 -8.690	70.0-11.378	70.0-12.410	70.0 -3.762
75.0 -4.362	75.0 -5.935	75.0 -5.384	75.0 -5.755	75.0 -8.611	75.0 -9.246	75.0 -2.391
75.6-14.104	75.6-15.322	75.6-15.868	75.6 -1.969	75.6 -6.594	75.6 -3.468	75.6 -2.297
76.3-12.719.			76.3 -2.0.6	76.3 -8.752	76.3 0.751	76.3 -2.580
77.1 1.004	77-1-10-194	77.1 -8.697	77.1 -2.063	77.1 -9.596	77.1 0.751	77.1 -2.816
78.6 3.996	78.6 4.413	78.6 4.374	78.6 3.711	78.6 2.926	78.6 3.457	78.6 0.492
80-0 -5-600		80.0 -5.747			80-0 -7-090	80.0 -0.501
85.0 -5.600	85.0 -2.135	85.0 -3.568	85.0 -4.004	85.0 -6.078	85.C -5.669	85.0 -0.973
90.0 -1.885	90.0 -0.669	90.0 -0.981	90.0 -1.164	90.0 -2.420	90.0 -1.542	90.0 -2.438
-95.0 -0.338	95.0 -0.440	95.0 -0.391	95.0 -0.596	95.0 -1.294	95.0 -0.212	95.0 -3.147
2.5 2.551	2.5 6.382	2.5 3.920	2.5 1.013	2.5 5.881	2.5 0.797	2.5 0.917
5.0 4.409	5.0 5.512	5.0 3.194	5.0 1.155	5.0 5.084	5.0 0.843	5.0 0.964
7.5 3.996	7.5 4.551	7.5 2.332		7.5 1.895	7.5 0.843	7.5 0.917
10.0 2.087	10.0 4.093	10.0 1.787	10.0 1.013	10.0 3.630	10.0 0.843	10.0 0.397
15.0 1.004	15.0 3.772	15.0 1.333	15.0 D.871	15.0 0.394	15.0 0.889	15.0 0.492
20.0 0.849	20.0 2.078	20.0 1.061		20.00.675		20-0 0-303
30.0 0.694	30.0 1.529	30.0 0.970	30.0 0.776	30.0 0.675	30.0 0.935	30.0 -0.028
50.0 1.107	50.0 1.803	50.0 1.470	50.0 1.392	50.0 0.628	50.0 1.439	50.0 0.350
65.0 6.782	65.0 6.611	-65-0 5-600		65.0. 5.740.	65.0 5.521	65.0 2.763 70.0 2.051
70.0 4.666	70.0 5.329	70.0 4.692	70.0 3.664	70.0 4.287 76.8 4.380	70.0 4.879 76.8 0.935	76.8 2.240
76.8 1.004	76.8 5.329 77.1 5.146	76.8 0.426 77.1 5.010	76.8 4.421 77.1 4.373	76.8 4.380 77.1 4.568	77.1 0.935	77.1 2.146
77.1 5.286		80.0 5.373	80.0 4.894	80.0 5.975	80.0 4.970	80.0 3.61.
80.0 5.028 85.0 4.357	80.0 5.146 85.0 4.368	85.0 4.647	85.0 3.332	85.0 4.333	85.0 5.566	85.0 2.665
90.0 3.84	90.0 4.139	90.0 3.376	90.0 2.195	90.0 3.255	90.0 4.924	90.0 2.004
95.0 2.293	95.0 3.360	95.0 2.241	95.0 1.344	95.0 1.801	95.0 4.007	95.0 1.153
TOTAL NORMAL		AND EGETA	40.717	,,,,,	-200 45001	10111
CN = 6.17		6.51	6.65	8-85	7.27	3.58
		-,,-,,				

					TABL	E V-54							
RUN 2	7, POI	NT 8		Q =	4.40	AL	PHA = 2	0	TCP =	2.50			
VALVE	1	VALV	E 3	VALV	E 4	VALV	E 5		/E 6	VAL	/E 7	VALV	/E 8
100X	CP	100X	CP	100X	CP	100X	CP	200X	CP	100X	CP	100X	CP
_0	1.215	0.	-6.118	0	-0.437	0	-1.495		-6.969		0.751	_0_	0.492
1.2 -	1.834		-4.149		-2.797		-3 <sub>0</sub> 531		-4,859		-3.284	1.2	0.397
2.5 -			-4.745		-4.975		-5.093		-5.281		-3.513	2.5	0.255
5.0 -			-5.798		-6.473		-6.276		-5.844				Oo.114
7.5 -			~5.386		-6.745		-1.685		-6.313		-5,439	7.5	0.019
10.0 -			-4.,928		-7.018		-6,228		-5.797		-5.256		-0.075
15.0 -			-5,569		-6,155		-1.069				-5.990		-3-173
20.0 -			-5.615		-5.656		-5.471		-6.266		-6.265		-0.312
25.0			-5.660		-5.702		-1.637		-6.922		-6.127		-0.454
			-5.386				-5-376				-5.990		-0.832
40.0 -			-4.836		-4.748		-4.856		-6.641		-5.760		-1.777
50.0 -			-4.287		0.743		-4.525		-6,969		-5.944		-2.155
			-5-157						-6.688		-6.402		-3.573
61.5 -			-2,409		-2.479		0.208		-2.232		-1.083		-2.816
62.5 -			-7.400		-6,609		-i.685		-4.208		-2.642		-2.391
65.0 =			10.056		-9.242				-10-065		10.988		
70.0 -			-6.164		-5.565		-5.187		-10-205		12.960		-2.722
75.0 -			-2.959		-2.797		-3,389		-7.579		-9.796		-2.583
75.6 -			-7.629		-9.378		-0.975		-5.938		-3.743		-2.155
_76 <sub>0</sub> 3 +			-5.431		-7.562		-0.975		_7.157		0.568.		-2.438
77.1			-4.378		-4.476		-1.448		-7.579	77.1	0.568 3.411		-2.675
78.6 80.0 -	3.480	78.6 80.0			3.557 -3.523	78.6	3.522	78.6	2.645 -7.767	78-6	-7.595	78.6 80.0	0.728
85.0 -			-2.021 -1.173		-3.323. -1.980		-2,395		-5.046		-6.036		-0.454
90.0 -			-0.349		-0.527		-0.880		-1.951		-1.863		-1.257
95.0 -			-0.303						-0.966				-2.722
2.5		2.5	6.749	2.5	1.515	2.5	0.350	2.5		2.5	0.706	2.5	0.822
	2.448	5.0	5.879	5.0	1.470	5.0	0.729	5.0		5.0	0,706	5.0	0.822
7,5		7.5		7.5	1.243				1.754			7.5	0.728
	1.210	10.0	4.230	10.0	1.243	10.0		20.0	3.864	10.0	0.797	10.0	0.586
	0.849	15.0	3.956	15.0	1.016	15.0	0.871	15.0	0.347	15.0	0.797	15.0	0.444
20.0			1.895				0.824		0.628		0.797	20.0	0.303
	0.694	33.0	1.437	30.0	0.880	30.0	1.297	30.0	0.816	30.0	0.797	30.0	0.019
	0.952	50.0	1.529	50.0	1.243	50.0	1.297	50.0	0.112	50.0	1.118	50.0	0.350
65.0		- 65.0	5.833		5.101				5.600	65.0	5.704	65.0	2.760
	3.996	70.0	3.406	70.0	3.013	73.0	2.622	70.0	3.255	70.0	5,200	70.0	1.862
	0.900	76.8	3.223	76.8	0.516	76.8	3.711	76.8	3.114	76.8	0.751	76.8	1.957
	4.821	77.1	3.681	77.1	4.057	77.1	3.900	77.1	4.052	77.1	0,797	77.1	1.957
	4.202	80.0	3.314	80.0	4.011	80.0	3,948	80.0	4.615	80.0	5.612	80.0	3.280
	3.996	85.0	2.902	85.0	2.922	85.0	2.622	85.0	2.551	85.0	5,704	85.0	2.051
	2.86.	90.0	2.719	90.0	1.969	90.0		90.0		90.0		90.0	
	2.139		1.987	95.0	1.333	95.0	1.155	95.0		95.0	3.916	95.0	0.633
TOTAL N	ORMAL	COEFFI	CIENT	-									
ж 5 <sub>0</sub>	26	7	1.15	5	.39		63	پد د د د	8.24		3.40		2.35

kUN 41, I	OINT 3	Q = 8.06	ALPHA =	O TCP =	0.30	
VALVE .	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	LUOX CP	3 00X CP	100X CP	OOX CP	TOOX Cb	100X CP
0 6		. O1.852	00.366	01.297	0. 0.275	0. 0.51
1.2 -0.6.	J 1.2 -J.986	1.2 -0.653	2 -0.574	1.2 -0.883	1.2 -0.584	1.2 0.36
2.5 -3.8.			2.5 -0.756	2.5 -0.883	2.5 -0.811	2.5 3.17
5.0 -0.4			5.3 -0.938	5.0 -1.038	5.0 -1.164	5.0 0.02
7.5 -3.70		7.51.328	7.5 -0.340	7.5 -1.16	7.5 -1.215	7.5-10.44
10.0 -1.2			10.0 -1.068	10.0 -216	10.0 -1.189	10.0 -0.02
15.030			15.0 -0.262	15.3 -1.1.6	15.0 -1,.39	15.0 -0.05
20.0 4			20.0 -0.730	20.0 -1.16	20.0 -1.265	20.0 -0.10
25.0 -: .40	8 25.0 -1.465		25.0 -0.288	25.0 -1.116	25.0 -1.215	25.0 -0.15
30.0 -1.5.			30.0 -1.146	30.0 -1.142	30.0 -1,189	30.0 -3.26
40.0 -1.40	8 40.9 -1.540		40.0 -1.146	40.0 -1.142	40.0 -1.164	40.0 -0.33
50.0 4	2 53.0 -1.439	50.0 0.297	50.0 -1.094	50.0 -1.142	50.0 -1.139	50.0 -0.46
60.0 31			60.0 -1.068	60.0 -1.142	50.0 -1.139	60.0 -0.59
64.5 -3.5	8 55 -0.583	61.5 -0.678	65 -0.262	61.5 -0.313	61.5 -0.584	62.5 -0.75
62.5 -2.0.			62.5 -1.276	52.5 -1.479	62.5 -1.215	62.5 -1.58
65.0 -Jei		65.0 -3.177	65.0 -1.952	65.0 -2.126	65.0 -1.871	65.0 -1.81
70.0 -2.0	0 70.0 -2.674	70,0 -2,202	70.0 -1.656	70.0 -1.764	70.0 -1.492	70.0 -1.97
75.0 -1.2:	8 75.0 -1.4.4	75.0 -4.453	75.0 -1.146	75.0 -1.197	75.3 -1.013	75.0 -1.97
75.0 -2.94	4 75.5 -1.137	75.5 -1.303	75.6 -0.678	75.6 -1.497	75.6 -0.710	75.6 -1.14
76.3 -1.40	3 75.3 -1.5.5	76.3702	76.3 -1.094	76.3 -1.582	76.3 0.073	76.3 -1.45
77.4 3.20	77.4 -1.666	77-1 -1-278	77-1 -2-654	77.1 -1.634	77 0.073	77.1 -1.58
78.6 0.7	5 78.5 0.778		78.6 0.440	78.6 D.464	78.6 0.174	78.6 -0.21
80.3 -0.9	8 80.0 -0.935	80.0 -1.303	80.0 -i.198	80.0 -1.297	80.0 -0.785	80.0 -0.96
85.0 -3.9	85.0 -0.709	85.0 -0.803	85.0 -0.834	85.0 -0.753	85.0 -0.634	85.0 -1.06
90.0 -3.4	90.0 -0.205	90.0 -0.278	90.0 -0.238	90.0 -0.313	90.0 -0.382	90.0 -0.80
95.0 -0.3	6 95.0 -0.028	95.0 -0.128	95.0 -0.136	95.0 -0.206	95.0 -0.331	95.0 -0.52
2.5 ).3	2 2.5 0.854	2.5 -0.203	2.5 -0.054	2.5 0.231	2.5 0.224	2.5 -0.02
5.0 0.9.	4 5.0 0.829	5.0 0.422	5.0 -0.032	5.0 0.257	5.0 0.224	5.0 -0.02
7.5 0.9			7.5 0.024	7.5 0.050	7.5 0.249	7.5 0.02
10.0 0.8	2 13.0 3.627	10.0 0.671	10.0 0.024	10.0 0.153	10.0 0.249	10.0 -0.18
15.0 0.6			15.0 0.050	15.0 0.231	15.0 0.249	15.0-10.44
20.0 0.5			20.0 0.050	20.0 0.231	20.0 0.224	20.0 -0.00
30.0 0.5			30.0 0.102	30.0 0.104	30.0 0.224	30.0 0.02
50.0 3.4.			50.0 0.238	50.0 0.101	50.0-14.442	50.0 0.02
65.0 1.0	65.0 0.955	65.0 0.921	65.0 0.388	65.0 0.464	65.0 0.426	65.0 0.05
70.00	9 70.0 0.980	70.0 3.923	70.0 0.388	70.0 0.749	70.0 0.350	70.0 0.05
76.8 3.2			76.8 0.778	76.8 0.80	76.8 0.123	76.8 0.05
77.1 0.9.		77.1 0.846	77.1 0.752	77.1 0.593	77-1 0-098	77.1 -0.02
80.00			80.0 0.310	80.0 0.697	80.0 0.300	80.0 0.05
85.0 1.0			85.0 0.960	85.0 0.671	85.0 0.376	85.0 0.02
90.0 0.9			93.0 0.934	90.0 0.516	90.0 0.249	90.0 0.02
95.3 0.7			95.0 0.778	95.0 0.464	95.0 0.224	95.0-10.44
TOTAL NORM	L COEFFICIENT					
= 1.88	2.02	1.67	1.27	1.42	-1.42	-0.03

					TABL	E V-56							
RUN	42, POI	NT 6		Q =	8.06	Αl	PHA = 1	2	TCP =	0.30			
VALV	E I	VALV	E 3	VALV	E 4	VAL	/E 5	VALV	/E 6	VAL	/E 7	VALV	E 8
100X	CP	100x	CP	100X	CP	YCOF	CP	100X	CP	100X	CP	100X	CP
0.	0.842	٥.	-0.809	0.	-0,228	0.	-0.548	D.	-1.712	0.	0,426	0.	3.542
1.2	-1.180	1.2	-1.767	1.2	-1.078	1.2	-1.302	1.2	-1.531	1.2	-1.088	1.2	0.412
2.5	782	2.5	-2.044	2.5	827	2.5	-1.744	2.5	-1.790		-1.719	2.5	0.309
5.0	_8 ن8 مـ –		-2.523	5.0	-2.502		-2.134	5.0	-1.764		-1.972	5.0	
	-4.044		-2.523		-2.677		-0.678		-1.815		-1.719	7.5	
	-2.384		-1.717		-2.777		-2.264		-1.764		-1.568		-0.028
	-2.4.0		-2.321		-2.477		-0.470		-1.660		-1,442		-0.106
	-2.436		-2.170		-2.327		-1.666		-1.608		-1.467		-0.235
	-2.306		-2.170		-2.327		-0.548		-1.556		-1.341		-0.417
	-2.279		-2.170		-2.227		-1.874		-1.556		-1,290		-0.728
	-1.939		-1.994		-2.002		-1.718		-1.453		-1.189		-1.038
	-1.808		-1.742		0.522		-1.510		-1.401		-1.139		-1.168
	549		~\$.439		-3.652		-1.380		-1.272		-1.088		-1.220
	-0.604		-0.507		-0.678		-0.340		-0.235		-0.028		-0.624
	-2.175		-2.725		-2.752		-2.004		-1.479		-0.886		-1.142 -1.297
	-3-536		-4.010		-3.951		-3.199		-2.593		-1.619		-1.505
	-2.201		-2.674		-2.852		-2.472		-1.971		-1.114		
	-1.180		-1.515		-3.777		-1.614		-1.323		-0,962		-1.790 -1.323
	-2.023		-1.263		-1.602		-1.510		-1.349		-0,609		
	-1.520		-1.691		-2.052		-1.640		-1.686		0.451		-2.075
	0.443		1.005		-1.577		-2.783 0.544		-1.712 0.671	77.1	0.477 0.325		-2.308 0.050
78.6					0.846 -1.303		-1.588		-1.194		-0.886		-0-235
	-0.8 <sub>4</sub> 3		-1.137 -0.860		-0.903		-1.042		-1.013		-0.836		-0.417
	-0.526		-0.255		-0.253		-0.288		-0.494		-0.634		-0.572
	-0.238		-0.179		-0.053		-0.158		-0.210		-0.382		-0.598
2.5	1.202	2.5	1.307	2.5	1.021	2.5	0.960	2.5	0.438		0.451		0.490
5.0	1.045	5.0	1.232	5.0	1.021	5.0	0.934	5.0	0.723	5.0	0.451	5.0	0.386
7.5	0.966	7.5	1.156	7.5	0.971	7.5	0.934	7.5	0.257	7.5		7.5	0.516
10.0	3.888	20.0	1.030	10.0	0.921	10.0	0.908	10.0	0.930	10.0		10.0	0.453
15.0	0.836	15.0	1.055	15.0	0.846	15.0	0.674	15.0	0.542	15.0	0.451	15.0	0.412
20.0	0.757	20.J	1.005	20.0	0.796	20.0	0.674	20.0	0.671	20.0	0.426	20.0	0.464
30.0	0.652	30.0	0.627	30.0	0.721	30.0	0.700	30.0	0.852	30.0	0.502	30.0	0.412
50.0	0.600	50.0	0.753	50.0	0.721	50.0	0.700	50.0	0.671	50.0	0.881	50.0	0.542
65.0	20204	65.0	1.181	65.0	2.046	65.0	0.986	65.0	1.008	65.0	0.704	65.0	0.516
70.0	1.097	70.0	1.207	70.0	1.073	70.0	0.960	70.0	0.956	70.0	0.754	70.0	0.542
76.8	0.469	76.8	1.207	75.8	0.097	76.8	0.934	76.8	0.956	76.8	0.477	76.8	0.493
77.1	0.9	77.1	1.181	77.1	0.971	77.1	0.830	77.1	0.852	77.1	0.477	77.1	0.360
80.0	1.176	80.0	1.207	80.0	1.071	80.0	0.856	80.0	0.982	80.0	0.350	80.0	0.257
85.0	0.966	85.0	1.257	85.Ö	1.096	85.0	1.038	85.0	0.956	85.0	0.628	85.0	0.412
90.0	0.888	90.0	1.207	90.0	1.071	90.0	0.950	90.0	0.878	90.0	0.780	90.0	0.334
95.0	3.737	95.0	1.081	95-0	C. 921	95.0	0.830	95.0	0,697	95.0	0,780	95.0	0.309
	NORMAL												
1 = 2	٥٥٠ و	2	.74	2	4.0		2 27	2	2.18		1.74	2	.17

TABLE V-57

	42, POI			Q =			PHA = 2			0.30			
VAL	/E 1	VALV	E 3	VAL	/E 4	VALV	E 5	VAL	/E 6	VAL	/E 7	VAL	VE 8
100X	CP	720X	CP	TOOX	CP	100X	C.P	oox	ÇP	COOK	CP	_00X	CP
v.	0.679	J.	-0.709	0.	0.297		-0.418	0.	-i.223	0.	0.451	0,	40.1
1.2	540	502	-2.059		178		-1.354	1.2	-1-427		-1.214	1.2	
2.5	-2.279		-2,473		-2-152		-1.848		-10712		-1.770	2.5	
	-2.279		-2.851		-2.727		-2.160	5.0	-1.712		-2,224	5.0	
	-2.593	7.5	-2.951		-2.902		-0.678		-1.764		-2.048	7.5	
	-2.803		-2.095		-3.027		-2.394		-1.560		-1.518	10.0	
	-2.751		-2.699		-2.727		-0.496		-1.738		-1,492	5.0	
	-20724		-2.498		-2.552		-1.848		-1.660		-1.518	20.0	
	-2.409		-2.447		-2.552		-0.626		-1.7.2		-1,366	25.0	
	-2.384		-2.347		-2.402		-2.030		-1.634		-1.442	30.0	
	-1.939		-2.120		-2.052		-1.588		-1.453		-1,366	40.0	
	677		-1.843		0.572		068		-2.220		-1.265	50.0	
	-:.4.6		-1.691		602		-1.068		-0.962		-1, 39	60.0	
	-0.395		-0.532		-0.378		0.074		00.		-0.003	61.5	
	-1.861		-2.447		-:.652		-0.850		-0.987		-0.987	64.5	7.46
	-2.620		-2.977		-1.902		-1.380		-1.401		-1,417	65.0	
	-1.599		-2.321		-1.702		-1.276		-0.96.		-1.240	70.0	
	-0.971		-4.565		-1.353		-0.850		-1.538		-1,215	75.0	
	-0.9.8		-1.162		-1.353		-1.198		-1.479		-0.710	75.6	
	-1.285		-1-606		627		-1.276		-4.585		0.527	76.3	
77.2			-1.994		-1.203		-2.965		-1.686	77. L		77.1	
	0.732		0.879		0.846		0.648		3.671		0.477		10.6
	-0.447		-1.565		-1.503		-1.016		-1.064		-10.64		8.4
	-0.552		-1.187		128		-0.938		-0.967		-1,240	85.0	
	-0.447		-0.507		-0.728		-0.652		-0.676		-0.785	90.0	
	-0.264		-0.331		-0.603		-0.522		-0.572		-0.584		9.7
2.5			1.358		3.972	2.5	0.934		3.878		0.451		1:.3
5.0		5.0	333	5.0	3.97	5.0	0.986	5.0	0.956	5.0			11.3
7.5	3.888	7.5	1.257	7.5		7.5	0.986	7.5		7.5			48.02
10.0		10.0	1.181	10.0		10.0	0.960	.0.0		10.0		10.0	
15.0	0.862	15.0	1.181	15.0	0.896	15.0	0.722	15.0		15.0			10
20.0	3.862	20.0	4.030	20.0		23.0	3.778	20.0		20.0			10.9
30.0		30.0	0.753	30.0	0.796	30.0	0.804	30.0		30.0 50.0	0.477 0.628		10.9
50.0	0.652	50.0	0.778	50.0		50.0		50.0					11.02
65.0	1.202	65.3	1.081	65.0		65.0	0.986 0.934	70.0		70.0			1.02
70.0 76.8	0.522	70.0	0.955	70.J	0.122	70.0 75.8	0.950	76.8	0.956	76.8			11.2
		76.8	0.955	77.1	0.122		0.856	77.1	0.827	77.9			2.00
77.1 80.0	J.888	77.1 80.0	1.005	80.0	1.146	77.1 80.0	0.832	80.0		80.0			11.1
85.0	0.940	85.0	2.005	85.0	0.996	85.0	1.012	85.0	0.955	85.0			11.2
90.0		90.0	0.955	90.0		90.0	0.934	90.0	0.878	90.0			11.1
95.0		95.0			0.796	95.0		95.0		95.0			
	NORMAL			7763	00130	73.0	J = 0 J 4	7,200	00149	7560	وردن ون	7760	. * = . • 4

ABLE	17_58

RUN	44, POI	NT 3		Q =	4.79	ALE	PHA ≠	0	TCP =	0.13			
VALV	/F 1	VALV	F 3	VALV	F 4	VALVE	- 5	VALV	/E 6	VALV	F 7	VALV	re à
100X	ČP	100X	CP	100X	ČP	100X	СP	100X	СP	100X	CP	100X	CP
	-0.777		-3.802		-2.383		-0.728		-2.033	0.	0.312		17.014
	-0-777		-1.640		-1.079		0.772		-1.205		-0.708		16.622
	-0.909		-1.040 -1.428		-1.290		0.947		-1.205		-0.878		16.491
	-0.909		-1.852		-1.668		1.209		-1.292		-1.218		16.360
	-0.953		-1.979		-1.962		0.291		-1.641		-1.387		16.273
	-1.482		-1.003		-2.215		1.340		-1.554		-1.387		16.316
	-1.790		-2-148		-2.215	15.0 -			-1.554		-1.387		16.360
	-2.054		-2.148		-2.215		-0.859		-1.423		-1.515		16.360
	-2.054		-2.276		-2.215		-0-203		-1.641		-1.515		16.360
	-2.186		-2.360		-2.215	30.0 -			-1.554		-1.515	30.0	16.316
	-2.098		-2.360		-2.131		1.384		-1.554		-1.430		16.360
	-2-142		-2.276	50.0	0.560	50.0 -			-1.554	50.0	-1.472	50.0	16.316
	-2.142		-2.148		-1.794		1.340		-1.554		-1.515	60.0	16.273
	-1.173		-0.876		-0.701		0.334		-0.464		-0.878	61.5	16.534
	-3.992		-4.905		-3.644		1.734		-2.251		-1.770	62.5	12.001
	-6.151		-6.855		-5-284	65.0 -			-3.602		-3.299		14.965
	-4.565		-5.117		-3.728		-2.478		-2.905	70.0	-2.662	70.0	15.314
75.0	-2.715		-2.954	75.0	-2-425	75.0 -	-1.778	75.0	-1.990		-1.812	75.0	12.350
75.6	-2.275	75.6	-2.191	75.6	-2.257	75.6 -	-1.515	75.6	-1.772	75.6	-1.133	75.6	16.055
	-3.200		-3.251		-3.224		-1.690		-2.120	76.3	0.142	76.3	15.706
77.1	0.500		-3.633		-2.467		-6-020		-2-207	77.1	0.142	77.1	15.488
78.6	1.602	78.6	2.262	78.6	2.158	78.6	0.759	78.6	0.669	78.6	0.482	78.6	17.232
80.0	-2.407	80.0	-2.191	80.0	-1.962	80.0 -	-1.996	80.0	-1.641	80.0	-1.387	80.0	15.532
85.0	-2-451	85-0	-1.512	85.0	-1.752	85.0	-1.428	85.0	-1.031	85.0	-1.005	85.0	15.663
90.0	-0.997	90.0	-0.071	90.0	-0.449	90.0	-0.466	90.0	-0.508		-0-453		16.273
95.0	-0.513	95.0	0.438	95.0	-0.070	95.0	-0-247	95.0	-0.420	95.0	-0.241		16.578
2.5	0.060	2.5	2.558	2.5	-0.280	2.5 -	-0.116	2.5	0.931	2.5	0.269	2.5	17.362
5.0	0.016	5.0	2.177	5.0	0.981		-0.072	5.0	0.887	5.0	0.312		17.362
7.5	0.721	7.5	1.838	7.5	1.570		-0.028	7.5	0.364	7.5	0.312		17.450
10.0	0.721	10.0	1.541	10.0	1.528	10.0	0.234	10.0	0.626	10.0	0.312		13.178
15.0	1.073	15.0	1.371	15.0	1-149	15.0	0.278	15.0	0.364	15.0	0.312		17.493
20.0	0.985	20.0	1.159	20.0	0.855	20.0	0.278	20.0	0.364	20.0	0.269		-0.072
30.0	0.632	30.0	0.905	30.0	0.687	30.0	0-409	30.0	0.495	30.0	0.269		-0.072
50.0	0.632	50.0	1.202	50.0	1.149	50.0	0.497	50.0	0.582	50.0	0.142		17.450
65.0	1.557	65.0	2.643	65.0	2.663	65.0	1.109	65.0	0.756	65.0	0.651		17.580
70.0	1.954	70.0	2.770	70.0	2.663	70.0	0.847	70.0	0.887	70.0	0.736		17.580
76.8	0.544	76.8	2.813	76.8	0.182	76.8	0.759	76.8	0.887	76.8	0.227		17.580
77.1	1.998	77.1	2.686	77.1	2.453	77.1	0.890	77-1	0.756	77.1	0.184		17.493
80.0	1.866	80.0	2.770	80.0	2.663	80.0	0.803	80.0	0.844	80.0	0.736		17.624
85.0	2.571	85.0	2.855	85.0	2-663	85.0	0.672	85.0	0.844	85.0	0.609		17.580
90.0	2-174	90.0	2.770	90.0	2.495	90.0	0.715	90.0	0.756	90.0	0.482		17.537
96.0	1.954	95.0	2.601	95.0	2-158	95.0	0.759	95.0	0.626	95.0	0.397	95.0	17.406
	NORMAL			_		_				_			
CN = 3	3.09		.07	3	. 05	1	. 82		2.19		. 76	-2	2.41

RUN 44, POI	NT 6	Q = 4.85	ALPHA = 1	2 TCP =	0.13	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE B
100X CP	TOOX CA	100X CP	100X CP	100X CP	100X CP	100X CP
02.638	03.420	02.229	00.892	01.750	0. 0.433	0. 16.502
1.2 -1.638	1.2 -2.373	1.2 -1.482	1.2 -1.670	1.2 -2.051	1.2 -1.077	1.2 15.899
2.5 -1.942	2.5 -2.750	2.5 -2.561	2.5 -2.231	2.5 -2.396	2.5 -1.664	2.5 15.555
5.0 -2.029	5.0 -3.337	5.0 -3.516	5.0 -2.836	5.0 -2.740	5.0 -2.335	5.0 15.167
7.5 -2.203	7.5 -3.379	7.5 -3.766	7.5 -0.763	7.5 -2.740	7.5 -2.461	7.5 15.210
10.0 -2.856	10.0 -2.541	10.0 -3.849	10.0 -2.836	10.0 -2.525	10.0 -2.335	10.0 15.339
15-0 -3-030	15.0 -3.169	15.0 -3.475	15.0 -0.503	15.0 -2.267	15.0 -2.042	15.0 15.296
20.0 -3.160	20.0 -3.043	20.0 -3.184	20.0 -2.231	20.0 -2.181	20.0 -2.252	20.0 15.382
25.0 -3.030	25.0 -3.127	25.0 -3.184	25.0 -0.503	25.0 -2.137	25.0 -2.210	25.0 15.425
30.0 -3.030	30.0 -3.085	30.0 -3.018	30.0 -2.361	30.0 -2.137	30.0 -2.000	30.0 15.469
40.0 -2.638	40.0 -2.918	40.0 -2.727	40.0 -2.188	40.0 -2.008	40.0 -1.874	40.0 15.469
50.0 -2.551	50.0 -2.667	50.0 0.595	50.0 -2.058	50.0 -2.051	50.0 -1.790	50.0 15.425
60.0 -2.377	60-0 -2-164	60.0 -2.312	60.0 -2.015	60.0 -2.008	60.0 -1.874	60.0 15.167
61.5 -1.768	61.5 -1.117	61.5 -1.274	61.5 -0.633	61.5 -0.502	61.5 -0.406	61.5 16.243
62.5 -4.030	62.5 -5.389	62.5 -4.638	62.5 -2.793	62.5 -2.310	62.5 -1.916	62.5 11.637
65.0 -6.118	65.0 -7.566	65.0 -6.673	65.0 -4.348	65.0 -3.558	65.0 -3.594	65.0 14.091
70.0 -3.813	70.0 -5.556	70.0 -5.095	70.0 -3.657	70.0 -3.084	70-0 -2-713	70.0 14.608
75.0 -2.203	75.0 -3.127	75.0 -3.350	75.0 -2.447	75.0 -2.181	75.0 -2.042	75.0 12.541
75.6 -2.247	75.6 -2.708	75.6 -3.309	75.6 -2.188	75.6 -2.181	75.6 -1.245	75.6 14.909
76.3 -2.856	76.3 -3.797	76.3 -4.555	76.3 -2.447	76.3 -2.611	76.3 0.475	76.3 14.091
77.1 0.581	77.1 -4.509	77.1 -3.807	77.1 -6.033	77.1 -2.740	77.1 0.517	77.1 13.790
78.6 2.190	78.6 2.568	78.6 2.214	78.6 0.749	78.6 0.488	78.6 0.182	78.6 17.147
80.0 -1.812	80.0 -2.918	80.0 -3.433	80.0 -2.102	80.0 -2.008	80.0 -1.496	80.0 14.091
85.0 -1.768	85.0 -2.164	85.0 -2.644	85.0 -1.540	85.0 -1.363	85.0 -1.077	85.0 14.694
90.0 -1.116	90.0 -0.363	90.0 -0.734	90.0 -0.590	90-0 -0-631	90.0 -0.574	90.0 15.770
95.0 -0.768	95.0 0.014	95.0 -0.111	95.0 -0.374	95.0 -0.286	95.0 -0.364	95.0 16.329
2.5 2.799	2.5 3.280	2.5 2.297	2.5 0.793	2.5 0.704	2.5 0.433	2.5 17.535
5.0 2.234	5.0 2.903	5.0 2.173	5.0 0.879	5.0 0.876	5.0 0.433	5.0 17.664
7.5 1.668	7.5 2.443	7.5 1.757	7.5 0.922	7.5 0.359	7.5 0.433	7.5 17.750
10.0 1.103 15.0 0.798	10.0 2.150	10.0 1.508	10.0 0.922	10.0 0.919	10.0 0.433	10.0 12.972
	15.0 1.856	15.0 1.093	15.0 0.706	15.0 0.531	15.0 0.475	15.0 17.750
20.0 0.668 30.0 0.581	20.0 1.438 30.0 0.977	20.0 0.927	20.0 0.793	20.0 0.617	20.0 0.475	20.0 17.793
50.0 0.561	30.0 0.977 50.0 1.270	30.0 0.761 50.0 1.010	30.0 0.793 50.0 0.706	30.0 0.790 50.0 0.704	30.0 0.475 50.0 0.517	50.0 17.750
65.0 3.365	65.0 3.322	65.0 2.837	65.0 1.268	65.0 0.876	65.0 0.433	65.0 17.879
70.0 2.277	70.0 3.071	70.0 2.630		70.0 0.876	70.0 0.433	70.0 17.965
76.8 0.581	76.8 3.196	76.8 0.179	76.8 1.095	76.8 0.833	76.8 0.517	76.8 17.965
77.1 2.625	77.1 3.071	77.1 2.546	77.1 1.052	77.1 0.704	77-1 0-517	77.1 17.621
80.0 2.886	80.0 3.280	80.0 2.879	80.0 1.181	80.0 0.833	80.0 0.182	80.0 17.750
85.0 2.277	85.0 3.238	85.0 2.546	85.0 1.268	85.0 0.876	85.0 D.685	85.0 17.965
90.0 1.625	90.0 2.820	90.0 2.048	90.0 1.268	90.0 0.747	90.0 0.685	90.0 17.965
95.0 1.233	95.0 2.150	95.0 1.550	95.0 0.793	95.0 0.661	95.0 0.685	95.0 17.922
TOTAL NORMAL		22.0 1.220	2240 0.175	7340 04001	**** 0.003	33.0 LT. 322
CN = 3.71	4.95	3.492	2.92	2.78	2.30	2.79
	10//	J* /L		4019	L. JU	4.1.7

					TABL	e v-60							
RUN	44, PC	DINT 7		Q =	4.85	A	LPHA =	16	TCP	= 0.13			
VAL	VB 1	VALVE	3	VALV	E 4	VALV	E 5	VALV	E 6	VALV	E 7	VALV	/E 8
100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
0.	-0.202	0	3.127	0.	-1.814	0.	-0.979	0.	-1.836	0.	0.475	0.	-0.588
1.2	-1.377	1.2 -	2.541	1.2	-1.731	1.2	-1.929	1.2	-2.439	1.2	-1.203	1.2	-1.750
2.5	-2.160	2.5 -	3.002	2.5	-2.852	2.5	-2.620	2.5	-2.783	2.5	-1.790	2.5	-2.008
5.0	-2.160	5.0 -	3.672	5+0	-3.849	5.0	-3.182	5.0	-2.697	5.0	-2.545	5.0	-2.396
7.5	-2.334	7.5 ~	3.588	7.5	-4-015	7.5	-0.892	7.5	-2.783	7.5	-2.629	7.5	-2.439
10.0	-3.030	10.0 -	2.583	10.0	-4.139	10.0	-3.138	10.0	-2.525	10.0	-2.419		-2.310
15.0	-3.204	15.0 -	3.379	15.0	-3.724	15.0	-0.547	15.0	-2.482		-2.168		-2.310
20.0	-3.291	20.0 -	3.253	20.0	-3.392	20.0	-2.231	20.0	-2.439		-2.335		-2.137
25.0	-3.073	25.0 -	3.253	25.0	-3.350	25.0	-0.590	25.0	-2.396	25.0	-2.084	25.0	-2.094
30.0	-3.030	30.0 -	3.295	30.0	-3-143	30.0	-2.490	30.0	-2.310	30.0	-2.000	30.0	-1.965
	-2.551	40.0 -	2.960		-2.727		-2.274		-2.137		-1.832		-1.922
	-2.377	50.0 -	2.625		0.595		-2.102		-2.137		-1.790		-1-965
	-2.203	60.0 ~			~2.354		-2.015		-2.051		-1.790		-1.965
	-1.768	61.5 -			-1.523		-0.547		-0.416		-0.322		-1.190
	-3.900	62.5 -			-4.596		-2.793		-2.611		-1.874		-5.710
	-5.205	65-0 -			-6-963		-4.434		-4-204		-3.510		-3.343
	-3.378	70.0 -			-5.219		-3.354		-3.429		-2.629		-2.740
	-1.812	75.0 -			-3.309		-2.058		-2.224		-2.000		-4.677
	-1.986	75.6 ~			-3.226		-1.842		-2.137		-1.371		-2.310
	-2.638	76.3 -			-4.305		-2.102		-2.568	76.3	0.475		-3.214
77.1		77.1 -			-3.267		-6.119		-2.697	77.1	0.475		-3.601
78.6			2.694		2.380	78.6	0.620		0.531	78.6	0.098		-0.071
	-1.420	80.0 -			-2.769		-1.799		-2.008		-1.580		-3.300
	-1.377	85.0 -			-2.063		-1.281		-1.190		-1.119		-2.740
	-0.724	90-0 -			-0.443		-0.590		-0.416		-0.616		-1.664
	-0.463	95-0 -			-0.111		-0.374		-0.114		-0.448		-1.061
2.5	2.016		3.448	2.5	2.297	2.5	0.793	2.5	0.747	2.5	0.433	2.5	0.833
5.0	1.581		3.029	5.0	l. 965	5.0	0.879	5.0	0.833	5.0	0.433	5.0	0.876
7.5	1.233		2.610	7.5	1.591	7.5	0.922	7.5	0.445	7.5	0.433	7.5	0.833
10.0	1.016		2.233	10.0	1.342	10.0	0.965	10.0	0.919	10.0	0.475		-4.333
15.0	0.798		2.024	15.0	1.052	15.0	0.749	15.0	0.531	15.0	0.517	15.0	0.704
20.0	0.711		1.521	20.0	0.927	20.0	0.793	20.0	0.661	20.0	0.517	20.0	0.617
30.0	0.711		0.977	30.0	0.802	30.0	0.836	30.0	0.833	30.0	0.475	30.0	0.488
50.0	0.668	50.0	1-144	50.0	0.927	50.0	0.749	50.0	0.747	50.0	0.559	50.0	0.488
65.0	3,495		3.322	65.0	2.962	65.0	1.095	65.0	0.919	65-0	0.559	65.0	6.790
70.0	2.451		2.861	70.0	2.546	70.0	1.009	70.0	0.919	70.0	0.601	70.0	0.790
76.8	0.581	76.8	3.113	76.8	0.221	76.8	0.879	76.8	0.919	76.8	0.517	76.8	0.704
77.1	2.712		3.071	77.1	2.630	77.1	0-879	77.1	0.747	77.1	0.517	77.1	0.445
80.0	2.451		3.238	80.0	2.920	80.0	0.879	80.0	0.876	80.0	0.307	80.0	0.661
85.0	2.147		2.275	85.0	2.214	85.0	1.181	85-0	0.876	85.0	0.601	85.0	0.790
90.0	1.451	90.0	1.773	90.0	1.591	90.0	1.138	90.0	0.833	90.0	0.727	90.0	0.704
95.0	1.016		1.312	95.0	1.135	95.0	0.922	95.0	0.747	95.0	0.685	95.0	0.617
		COEFFIC		-	04		00		40.	-	2 5	٠.	74
CN =	3.51		76	3	- 86		90		•94		2.35		2.76

		TABI	E V-61.			
RUN 43, PO	INT 3	Q = 4.46	ALPHA =	O TCP =	0.84	
VALVE 3	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	JOX CP	LOOX CP	230X CP	"OOX CP	100X CP	100X CP
0. 0.236	J7.542	03.731	03.921	01.433	J. 0.474	0. 0.674
1.2 -0.927	1.2 -2.214	1.2 -1.338	1.2 -1.139	1.6 -1.479	1.2 -0.712	2.2 2.580
205 -20042	2.5 -1.7.3	2.5 654	2.5 -1.343	4.5 -1.479	2.5 -0.941	2.5 0.487
5.0 -0.974	5.0 -2.624	5.0 -2.375	5.0 -1.672	5.0 -1.760	5.3 -1.351	5.0 0.346
7.5 -1.2	7.5 -2.852	7.5 -2.828	7.5 -0.434	7.5 -2.088	7.5 -1.579	7.5 0.299
10.0 -1.589	10.0 -2.269	10.3 -3.144	10.0 -1.860	0.0 -1.994	10.0 -1.625	10.0 0.159
15.0 -2.1.0	.5.0 -3.125	5.0 -3.099	15.0 -0.310	5.0 -: 994	45.0 -1.625	15.0 0.112
20.0 -2.583	20.0 -3.034	20.0 -2.963	23.0 -1.250	20.0 -1.994	20.0 -1.944	20.0 0.065
25.0 -2.630	25.3 -3.307	25.0 -1.054	25.0 -0.310	25.0 -2.135	25.0 -1.853	25.0 0.019
30.0 -2.807	30.0 -3.444	30.0 -3.009	33.0 -2.001	30.3 -1.994	30.0 -1.853	30.0 -0.028
40.0 -2.745	40.0 -3.398	40.0 -4.693	40.0 -1.954	40.0 -1.947	40.0 -1.853	40.0 -0.075
50.0 -2.857	50.0 -3.171	50.0 0.965	50.0 -1.907	50.0 -2.088	50.0 -1.853	50.0 -0.124
60.3 -3.008	60.3 -3.171	60.0 -2.522	60.0 -2.001	50.0 -2.228	60.0 -2.035	60.0 -0.219
61.5 -1.968	6405 -10394	61.5 022	65 -0.545	64.5 -0.964	60.5 -1.23	64.5 -0.403
62.5 -0.509	62.5 -7.861	62.5 -5.628	62.5 -3.175	62.5 -3.165	62.5 -2.674	62.5 -0.495
65.0-13.293	65.0-11.322	65.0 -8.608	65.0 -5.007	65.3 -5.277	65.0 -5.046	65.0 -0.684
70.0 -7.834	70.0 -8.544	70.0 -070	70.0 -4.152	70.0 -4.101	70.0 -4.271	70.0 -1.807
75.0 -4.604	75.0 -4.673	75.0 -3.912	75.0 -3.175	75.0 -2.837	75.0 -2.948	75.0 -2.509
75.6 -3.907	75.6 -3.717	75.6 -4.002	75.6 -2.800	75.6 -2.696	75.6 -1.899	75.6 -1.058
76.3 -5.503	75.5 -5.584	76.3 -5.989	76.3 -3.3.6	76.3 -3.11	76.3 0.246	76.3 -2.27
77.1 0.874	7700 -60586	77.1 -4.770	77.1 -6.323	77-1 -3-399	77.1 0.291	77.1 -2.60
78.6 2.952	78.6 4.480	78.6 4.217	78.6 1.075	78.6 0.674	78.6 0.656	78.6 -0.356
80.0 -3.955	80.0 -4.127	80,0 -4,318	80.0 -3.316	80.0 -2.603	80.0 -2.309	80.0 -0.63
85.0 -3.8.3	85.0 -3.079	85.0 -3.776	85.0 -2.471	85.0 -1.526	85.0 -1.625	85.0 -1.80
90.0873	90.0 -0.074	90.0 -0.706	90.0 -0.874	90.0 -0.637	90.0 -0.576	90.0 -2.56
95.0L. 154	95.0 0.837	95.0 0.288	95.3 -0.404	95.0 -0.309	95.0 -0.256	95.0 -1.011
2.5 -0.832	4.5 5.072	2.5 0.785	2.5 0.676	2.5 1.657	2.5 0.428	2.5 -3.21
5.0 -0.434	5.0 4.253	5.0 2.772	5.0 0.8.7	5.0 2.470	5.0 0.428	5.0 -0.02
7.5 0.238	7.5 3.387	7.5 2.997	7.5 0.770	7.5 0.627	7.5 0.428	7.5 0.11
10.0 0.539	10.0 2.795	10.0 2.681	20.0 0.770	0.0 1.236	10.0 0,474	10.0 -0.02
15.00.3	15.0 2.477	.5.0733	15.0 0.582		15.0 0.428	15.0 0.11
20.0 1.207	20.0 1.930	20.0	20.0 0.676	20.0 0.534	20.0 0.428	20.0 0.15
30.0 0.871	30.0 J.700	30.0 0.875	30.0 0.770	30.0 0.721	30.0 0.474	30.0 0.11
50.0 J.9.8	50.0 2.067	53.0 2.049	50.0 3.770	50.3 0.627	50.0 0,428	50.0 0.11
65.0 3.094	55.0 5.072	65.0 5.210	65.0 1.193	65.0 1.376	65.0 1.203	65.0 0.39
70.0 3.330	70.3 5.330	70,0 4,984	70.0 1.005	70.0 1.189	70.0 1.203	70.0 0.29
76.8 0.770	76.6 5.528	76.8 0.198	70.8 1.052	76.8 1.048	76.8 0.291	76.8 0.29
77.1 3.945	77.2 5.119	77-1 4-804	77-1 1-099		77.1 0.474	77.1 0.15
80.0 4.3.4		80.0 5.255	83.0 1.052	80.0 1.395	80.0 1.568	80-0 0-44
85.0 4.797		85.0 5.030	85.0 0.770		85.0 1.751	85.0 0.25
90.0 4.277		90.0 4.488	90.0 0.582		90.0 1.477	90.0 5.29
95.3 3.4.5	95.0 4.981	95.0 3.765	95.0 0.864	95.0 0.722	95.0 0.793	95.0 0.20
	COEFFICIENT				2.61	0.70
= 4.61	6.75	4.96	2,79	3.00	2.61	0.70

			TAI	BLE <b>V-</b> 62			
RUN 43,	POINT 6		Q = 4.52	ALPHA = 1	.2 TCP =	0.84	
VALVE 1	VAL	VE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	130X	CP	100X CP	100X CP	- DOX CP	100X CP	130X CP
05.4	89 J.	-6.364	0, -4,707	01.14.	01.094	0. 0.377	0. 0.572
1.2 -3.0	.62	-3.309	1.2 -1.812	1.2 -2,299	202 -20245	1.2 -1.54	1.2 0.480
2.5 -2.9		-3.7.3	2,5 -3,236	4.5 -2.995	2.5 -2.753	2.5 -1.874	2.5 0.34
5.0 -2.9		-5.016	5.) -4.662	5,0 <b>−</b> 3,505	5.0 -3.030	5.0 -3.089	5.0 0.203
7.5 -3.0		-5.016	7.5 -5.063		7.5 -3.261	7.5 -3.179	7.5 0.064
10.0 -3.6		-3.848	10.0 -5.420		.C.O -2.800	10.0 -3,044	10.0-18.553
15.0 -3.9		-4.702	15.3 -4.753	15.0 -0.631	5.3 -2.938	15.0 -2.684	15,0 -0.074
20.0 -4.2		-4.387	20.0 -4.395		20.0 -2.892	20.0 -3.134	20.0 -0.213
25.0 -4.2		-4.567	25.0 -4.440		25.0 -3.030	25.0 -2.999	25.0 -1.506
30.0 -4.2		-4.612	30.0 -4.217		30.0 -2.938	30.0 -2.909	30.0 -2.107
40.0 -3.8		-4.387	40.0 -3.816		40.0 -2.892	40.0 -2,729	40.0 -2.569 50.0 -2.753
50.0 -3.8		-4.028	53.0 0.774		50.0 -3.077	50.0 -2.774 60.0 -2.909	60.0 -2.800
60.0 -3.8		-3.129	60.0 -3.415		61.5 -0.998	65 -1.334	61.5 -1.922
61.5 -3.3		-2.410	61.5 -1.989		62.5 -4.047	62.5 -3.539	62.5 -2.476
62.5 -7.5		-9.869	62.5 -7.425			65.0 -6.513	65.0 -2.892
65.0-10.8		-13.195	65.0-10.321 70.0 -8.361		55.3 -6.432 70.0 -5.386	70.0 -5.520	70.0 -3.354
70.0 -7.7		-9.824 -6.005	75.0 -5.331	70.0 -5.451 75.0 -3.736	75.3 -3.770	75.0 -3.809	75.0 -4.462
					75.0 -3.585	75.6 -2.324	75.6 -3.261
75.6 -4.3 76.3 -5.4		-5.151	75.6 -5.865 76.3 -8.049		76.3 -4.000	76.3 0.377	76,3 -4,693
77.1 0.5		-7.263 -8.386	77.3 -6.578		77.4 -4.231	77.1 0.422	77.1 -5.386
78.6 3.7		4,960	78.6 4.383		78.6 0.434	78.6 0.467	78.6 -0.398
80.0 -3.8		-5.286	80.0 -5.331		80.0 -3.261	80.0 -2.774	80.0 -1.506
85.0 -3.8		-3.938	85.0 -4.395		85.0 -1.968	85.0 -1.874	85.0 -1.69
90.0 -1.7		-0.702	90.0 098		90.0 -0.998	90.0 -0.928	90.0 -2.014
95.0 -1.3			95.0 -0.251		95.0 -3.536	95.0 -0.523	95.0 -1.737
2.5 2.8			2.5 3.403		2.5 1.27	2.5 0.422	2.5 0.896
5.0 4.4			5.0 3.848		5.0 127	5.0 0.422	5.0 0.895
7.5 3.4			7.5 3.002		7.5 0.572	7.5 0.422	7.5 0.942
10.0 2.2			10.0 2.244		70.0 1.173	10.0 0.422	10.0 -0.860
15.0 0.9	99 15.0	2.893	15.0 1.398	15.0 0.806	15.0 0.572	15.0 0.422	15.0 0.665
20.0 0.5	79 20.0	1.994	20.0 0.997	20.0 3.899	20.0 0.618	20.0 0.512	20.0 0.618
30.0 0.3	92 30.0	0.781	30.0 0.774	30.0 0.899	30.0 0.896	30.0 0.407	30.0 0.483
50.0 0.7	19 50.0	1.859	50.0 1.531	50.0 0.760	50.0 0.757	50.0 0.647	50.0 0.480
65.0 5.4			65.0 5.497		65.0 1.034	65.0 1.592	65.0 0.803
70.0 4.0			73.0 4.918		70.0 0.988	70.0 1.097	70.0 0.803
76.8 0.5			76.8 0.239		76.8 0.942	76.8 0.512	76.8 0.618
77-1 4-5			77.1 5.007		77.1 0.757	77.1 0.512	77.1 0.295
80.0 5.3			80.0 5.586		80.0 0.849	80.0 1.052	83.0 3.618
85.0 4.0			85.0 4.650		85.0 0.942	85.0 0.962	85.0 0.71
90.0 3.0			90.0 3.581		90.0 3.896	90.0 0.782	90.0 0.618
95.0 1.8			95.0 2.512	95.0 0.899	95.0 0.757	95.0 0.602	95.0 0.526
TOTAL NORM		8.06	5.95	385	3.84	3.52	3.21

TABLE V-63

RUN	43. POI	NT 7		Q =	4.64	AL	PHA = 1	6	TCP =	0.84			
VALV		VALV	E 3	VALV	E 4	VALV	E 5	VAL	/E 6	VALV		VALV	
100X	CP	<b>YOUX</b>	CP	LOOX	CP	130X	CP	100X	CP	100X	CP	100 X	CP
0.	-407-2	٥.	-0.059	0,	-3.544	Ò.	-1.473	0.	-1.423	0.	0.410	٥.	0.15
	804	102	-3.530		-2.242		-2.873		-2.818	1.2	-1.344		-0.02
	-2.393		<b>-</b> 4₀055		-3.674		-3.640		-3.243		-2, 77		-0.20
	-20903		-5.281		-4.803		-4.002		-3.133		-3,405		-0.65
	-4.165		-4.800		-5.324		-1.022		-3.178		-3,492		-1.28
	-3.757		-3.749		-5.584		-3,686		-3.133		-3.273		-2.18
	-4.075		-4.800		-4.977		-0.660		-3.493		-2.966		-2.59
	-4.302		-4.537		-4.542		-3.053		-3,268		-3,405		-2.77
	-4.075		-4.668		-4.542		-0.796		-3.088		-3.098		-2.72
	-4.1.0		-4.756		-4.282		-3.099		-30133		-2,922		-2.68
	-3,620		-4.362		-3.805		-2.873		-3+043		-2.747		-2.72
	-3.575		-4.099	53.0	0.710		-2.782		-378		-2,747		-Z. 90
	-3.5.9		-3.136		-3.371		-2.782		-2.953		-2.922		-3.22
	-2.802		-2.830		-2.329		-0.976		-0.838		-1.168		-1.91
	-6.576		-9.090		-6.973		-3.731		-3.838		-3.405		-4.34
	13.44.		11.847		10.099		-5.582		-6.327		-6.562		-5.33
	-7.2.2		-9,046		-7.711		-4.589		-4.978		-5.246		-4.52
	-4.348		-5.544		-4.760		-3.279		-3.538		-3.668		-5.11
	-3,959		-4.493		-5.107		~3.099		-3.043		-2.177		-3.17
	-50264		-6,682		-6.843		-3.369		-3.583	76.3			-4.43
77.4	3.654		-7.120		-5.294		-6.259		-3.808	77-1	0.410		-5.06
78.6	3.564		4.743	78.6	4.529	78.6	0.830		0.557	78.6	0.366		-0.43
	-3.5.9		-4.800		-4.369		-3.234		-2.593		-2-615		-2.54 -2.81
	-3.404		-3.224		-3.110		-2.5.2		-1.648		-1.782 -0.730		
	-1.236		-0.540		-0.766		-1.112		-3.838		-0.335		-1.82 -1.64
	-3.7.0		-0.597	2.5	-0.289 3.922		0.604	2.5	0.782	2.5	0.410		0.87
2.5	3.29	2.5	6.190 5.225	5.0	3.488	2.5 5.0	0.830	5.0	1.007	5.0	0.410	5.0	3.82
5.0		5.0	4.262	7.5	2.533	7.5	0.830	7.5	0.467	7.5	0,410	7.5	0.73
7.5	3.0.8	7.5 40.0	3.649	13.3	1.969	10.0	0.875	10.0	1.007	10.0	0.410		-4.61
10.0	0.881	15.0	2.905	15.0	1.274	15.0	0.694	15.0	0.557	15.0	0.454	15.0	0.60
20.0	3.745	20.0	1.942	20.0	0.970	20.0	0.785	20.0	0.557	20.0	0.498	20.0	5.51
30.0	3.608	33.3	0.760	30.0	0.797	30.0	0.830	30.0	0.872	30.0	0.454	30.0	0.42
50.0	0.745	50.0	1.591	50.0	1.274	50.0	0.694	50.0	0.782	50.0	0.630	50.0	0.46
65.0	5.746	65.0	6.275	65.0	5.571	65.0	1.507	65.0	1.007	65.0	1.287	65.0	0.73
70.0	3.79	70.0	5.356	70.0	4.573	70.0	1.281	70.0	0.962	70.0	0,980	70.0	0.73
76.8	0.608	76.8	5.838	76.8	3.232	76.8	0.965	76.8	0.872	76.8	0,454	76.8	0.55
77.1	4.564	77.1	5.706	77.1	5.137	77.1	1.146	77. L	0.782	77.1	0.498	77.1	0.49
80.5	4.792	80.0	6.033	80.0	5.571	80.0	1.101	80.0	0.962	80.0	0.893	80.0	0.60
85.0	5.609	85.C	4.568	85.0	3.965	85.0	1.010	85.0	0.917	85.0	0.805	85.0	0.64
90.0	2.745	90.0	3.912	90.0	2.837	90.0	1.28	90.0	0.827	90.0	0.717	90.0	0.55
95.0	791	95.3	2.730	95.0	. 925	95.0	3.694	95.0	0.692	95.0	0.630	95.0	0.37
	NORMAL										.,.,.		,
	5.46		.65	_	.61		3.63		3.82		3.48		. 5

TABLE	V-64
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RUN 41, POI	NT 3	Q = 3.39	ALPHA =	O TCP =	1.60	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	JOOX CP	100X CP	160X CP	100X CP	100X CP	100X CP
O. J.656	011.472	05.851	00.337	Q2.800	0. 0.572	00.767
1.2 -1.273	1.2 -2.904	1.2 -1.335	1.2 -1.264	1.2 -1.937	1.2 -0.808	1.2 -0.829
2.5 -1.335	2.5 -2.245	2.5 -1.929	2.5 -1.697	2.5 -1.876	2.5 -0.988	2.5 -1.137
5.0 -1.273	5.0 -3.383	5.0 -3.058	5.0 -2.129	5.0 -2.245	5.0 -1.529	5.0 -1.321
7.5460	7.5 -3.743	7.5 -3.712	7.5 -0.523	7.5 -2.615	7.5 -1.829	
10.0958	10.0 -3.503	10,0 -4.128	10.0 -2.315	10.0 -2.553	10.0 -1.889	
15.0 -2.560	15.0 -4.102	15.0 -4.009	15.0 -0.461		15.0 -1.949	
20.0 -3.347	20.0 -3.983	20.0 -3.890	20.0 -1.326		20.0 -2.309	
25.0 -3.389	25.0 -4.282	25.0 -4.009	25.0 -0.399	25.0 -2.492	25.0 -2.249	
30.0 -3.762	30.0 -4.522	30.0 -3.831	30.0 -2.500	30.0 -2.553		
40.0 -3.5.3	43.0 -4.432		40.0 -2.438	40.0 -2.553	40.0 -2.189	
50.0 -3.825	50.0 -4.222	50.0 1.219	50.0 -2.500	50.0 -2.800	50.0 -2.309	50.0 -: .691
60.0 -4.0.4	60.0 -3.803	60.0 -3.236	60.0 -2.562	60.0 -2.800	60.0 -2.549	
61.5 -2.923	64.5 -2.965		64.5 -0.646	61.5 -1.198	61.5 -1.649	
62.5 -9.364	62.5-10.573		62.5 -3.922	62.5 -4.216	62.5 -3.569	
65.0-4.965	65.0-25.247		65.0 -6.826	55.0 -6.6.8	65.0 -6.750	
70.0-1293	70.0-12.131	70.0 -9.059	70.0 -6.641	70.0 -5.632	73.3 -5.850	
75.0 -7.123	75.0 -6.859	75.0 -5.494	75.0 -4.972	75.0 -3.847	75.3 -4.269	
75.6 -5.94	75.6 -5.361	75.6 -6.088	75.6 -3.613	75.6 -3.847		75.6 ~3.292
76.3 -3.430	76.3 -8.336	76.3 -8.881	76.3 -4.416	76.3 -4.40)	76.3 0.272	
77.2 392	77.1 -9.615	77.1 -7.039	77.1 -5.765	77.1 -4.462	77.1 0.332	77-1 -4-893
78.6 3.644	78.6 6.443	78.6 6.032	78.6 1.146	78.6 1.080	78.6 0.872	78.6 -0.459
80.0 -5.003	80.0 -6.259	80.0 -5.969	83.0 -4.292	80.0 -3.723	80.0 -3.509	80.0 -2.553
85.0 -5.8.6	85.0 -4,102	85.0 -5.019		85.0 -1.937	85.0 -2.069	85.0 -2.676
	90.0 -0.088	90.0 -1.098	93.0 -1.202	90.0 -0.952	90.0 -0.868	90.0 -2.061
95.0 -0.950	95.0 1.470	95.0 0.507	95.0 -0.584	95.0 -0.52.	95.0 -0.388	95.0 -2.075
2.5 -1.348	2.5 7.431	2.5 1.041	2.5 0.837	2.5 2.805	2.5 0.572	2.5 0.033
5.0 0.4	5.0 6.143	5.0 4.665	5.0 0.899	5.0 2.374	5.0 0.572	5.0 0.218
7.5 -3.775	7.0 4.765	7.5 4.606	7.5 1.022	7.5 0.772	7.5 0.572	7.5 0.157
10.0 -3.7.3	13.0 3.926	10.0 3.596	10.0 0.961	.0.0635	10.0 0.572	.0.0 -1.198
15.0 -5.028	15.0 3.687	15.0 2.229	15.0 0.713	5.0 1.080	15.0 0.572	15.0 0.218
20.0 0.532	20.0 2.548	20.0 4.517	20.0 0.837	20.0 0.711	20.0 0.572	20.0 0.280
30.0 3.719	30.0 1.170	30.0 4.041	30.0 0.961	30.0 0.834	30.u 0.572	30.0 0.218
50.0 0.905	50.0 2.968	50.0 2.883	50.0 0.899	50.0 0.649	50.0 0.572	50.0 0.280
65.0 4.70_	65.0 7.341	65.0 7.458	65.0 1.270	65.0 2.558	65.0 1.112	65.0 J.403
70.0 4.577	70.0 7.521	70.0 7.161	70.0 0.961	70.0 1.388	70.0 2.012	70.0 3.464
76.8 .033	76.3 7.881	76.8 0.150	76.8 0.961	76.8 1.265	76.8 0.452	76.8 0.464
77.1 5.760	77.1 7.401	77.1 6.923	77.1 1.084	77.1 2.388	77.: 0.572	77.1 0.033
80.0 5.3.4	83.0 7.881	80.0 7.577	80.0 1.022	80.0 1.511	80.0 1.532	80.0 0.464
85.0 5.944	85.0 8.120	85.0 7.161	85.0 0.837	85.0 0.957	85.0 2.433	85.0 0.526
90.0 5.449	93.0 7.641	90.0 6.329		90.0 1.019	90.0 1.472	90.0 0.403
95.0 4.453	95.0 7.162			95.0 1.380	95.0 2.312	
TOTAL NORMAL						
	9.39	6.728	3,56	3.94	3.34	2.48

TABLE V-65

RUN 44, POI	INT 6	Q = 3.08	ALPHA = &	2 TCP =	1.60	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	130X CP	LOOX CP	LOOX CP	LGOX CP
02.239	010.777	06.044	01.797	00.706	O. 0.302	0, 28,034
1,2 -2,46	1.2 -4.842	1.2 -2.12.	2 -3.293	1.2 -2.672	4.2 -1.385	1.2 28.034
2.5 -2.494	2.5 -4.644	2.5 -3.952	2.5 -4.314	2.5 -3.214	2.5 -2.376	2.5 28.034
5.0 -2.494	5.0 -0.227	5.0 -5.913	5.0 -4.5.8	5.0 -3.756	5.0 -3.595	5.0 27.967
7.5 -3.042	7.5 -6.359	7.5 -5.502	7.5 -1.253	7.5 -3.892	7.5 -3,860	7.5 27.967
10.0 -3.864	.3.C -4.776	10.0 -6.960	10.0 -3.837	0.0 -3.689	40.0 -3.794	.0.0 27.899
15.0 -4.481	15.0 -6.161	15.0 -6.175	15.0 -0.844	5.0 -3.689	.5.0 -3.331	15.0 27.899
20.0 -4.960	20.0 -5.963	20.0 -5.717	20.0 -3.157	27.0 -3.824	23.0 -3.860	20.0 27.831
25.0 -4.892	25.0 -6.227	25.0 -5.783	25.0 -0.844	25.0 -3.960	25.0 -3.860	25.0 27.832
30.0 -5.029	30.0 -6.445	30.0 -5.521	30.0 -3.837	30.0 -3.892	30.5 -3.661	36.0 27.831
40.0 -4.549	40.0 -5.095	40.0 -4.933	40.0 -3.701	40.0 -3.824	40.0 -3.529	40.0 27.763
50.0 -4.686	50.0 -5.700	50.0 C.887	50.0 -3.701	50.0 -4.027	50.0 -3.529	50.0 27.763
60.0 -4.843	60.0 -4.710	60.0 -4.475	60.0 -3.769	60.0 -3.960	60.0 -3.860	60.0 27.696
61.5 -5.0.9	61.5 -3.723	61.5 -2.971	62.5 -1.865	61.5 -1.3.6	65 -2,208	61.5 27.696
62.5-10.372	62.5-14.273	62.5 -9.968	62.5 -5.130	62.5 -5.315	62.5 -5.313	62.5 27.696
65.0-16.557	65.0-19.087	65-0-14-349	65.0 -8.463	65.0 -8.366	65.0-10.069	65.0 27.628
70.0-12.504	70.0-14.800	70.0-12.341	70.0 -7.170	70.0 -7.,46	70.0 -8,550	70.0 27.628
75.0 -7.289	75.0 -8.931	75.0 -7.417	75.0 -5.298	75.0 -52	75.0 -6.238	75.0 27.560
75.6 -6.193	75.6 -7.612	75.6 -8.398	75.6 -4.926	75.6 -4.570	75.6 -4.190	75.6 27.492
76.3 -8.659	76.3-10.909	76.3-1603	76.3 -5.402	76.3 -5.587	76.3 0.302	76.3 27.492
77.1 0.862	77.1-13.086	77.2 -9.314	77.1 -8.055	77.1 -5.790	77-1 0-302	77.1 27.424
78.6 5.657	78.0 7.819	78.6 7.034	78.6 1.264	78.6 0.340	78.6 0.566	78.6 27.424
80.0 -6.05o	80.0 -8.733	80.0 -7.875	8 -0 -5.538	80.0 -4.434	80.0 -5.049	80.0 27.357
85.0 -5.919	85.0 -6.491	85.0 -5.848	85.0 -4.109	85.0 -2.536	85.0 -3.199	85.0 27.357
90.0 -2.152	93.3 -1.215	90.0 -1.467	90.0 -1.865	90.0 -1.384	90.0 -1.283	90.0 27.357
95.0 -i.672	95.0 0.104	95.0 -0.486	95.0 -1.185	95.0 -0.842	95.0 -1.019	95.0 27.289
2.5 0.3.4	2.5 9.138	2.5 4.813	2.5 0.584	2.5 1.938	2.5 0.368	2.5 28.102
5.0 3.260	5.3 7.687	5.0 5.857	5.0 0.720	5.0734	5.0 0.368	5.0 28.173
705 40424	7.5 0.175	7.5 4.515	7.5 0.856	7.5 0.446	7.5 0.302	7.5 28.102
10.0 3.876	10.0 5.050	10.0 3.372	10.0 0.924	10.0 1.734	10.0 0.368	10.0 28.034
8د4،2 0،15	15.0 4.852	15.0 1.934	15.0 0.720	15.0 0.514	15.0 0.368	15.0 27.899
20.04.0	20.0 3.071	20.0 1.280	23.0 0.856	20.0 0.717	20.0 0.434	20.0 27.831
30.0 0.588	33.0 1.027	30.0 0.887	30.0 0.924	30.0 0.989	30.0 0.368	30.0 27.763
50.0 0.999	50.0 2.346	50.0 1.999	50.0 0.788	50.0 0.785	50.0 0.500	50.0 27.763 65.0 28.034
65.0 8.67.	65.0 9.600	65.0 8.538	65.0 2.148	65.0 1.192	65.0 2.944 70.0 2.218	70.0 28.034
70.0 5.068	70.0 9.006	70.0 7.623	70.0 1.875	75.0 0.989		76.8 27.763
76.8 C.862	76.8 9.468	76.8 2.233	76.8 1.400	76.8 0.989		77.1 27.357
77.1 7.370	77.1 8.940	77-1 7-884	77.1 1.808	77.1 0.853	77.1 0.434 80.0 1.755	80.0 27.899
80.0 8.554	80.0 9.864	80.0 8.669	80.0 1.604	80.0 1.192		85.0 27.967
85.0 6.890	85.0 8.677	85.0 7.165	85.0 1.740	85.0 1.192 90.0 0.446	85.0 1.623 90.0 1.095	90.0 27.831
90.0 4.561	90.0 6.962	90.0 5.399	93.0 0.992	90.0 0.446 95.0 0.650	95.0 0.764	95.0 27.628
95.0 3.123 TOTAL NORMAL	95.0 5.973	95.0 3.634	95.0 0.856	450 00000	7200 00104	7790 219020
CN = 7.83	LUCFFICIENT	8.17	4.78	4.88	4.81	0.60
CM 1003	6.4313	00 7.1	78 10	18.00		

TABLE V-66

RUN 41. POI	NT 7	Q = 3.32	ALPHA = 1	6 TCP =	1.60	
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8
100X CP	100X CP	100X CP	150X CP	, DOX CP	100X CP	200X CP
05.355	20 -9,817	03.547	02.363	01.412	0. 0.339	J. 0.286
1.2 -2.570	-4.6.7	1.2 -2.15	2 -4.382	1.2 -2.921	1.4 -1.315	1.2 0.223
2.5 -2.701	2.5 -4.984	2.5 -4.032	2.5 -5.960	2.5 -3.424	2.5 -2.12	2.5 0.223
5.0 -2.762	5.0 -6.146	5.0 -5.791	5.0 -5.771	5.0 -3.550	5.0 -3.705	5.0 0.163
7.5 -3.333	7.5 -6.085	7.5 -6.519	7.5 -1.353	7.5 -3.864	7.5 -4.012	7.5 060
10.0 -3.908	10.0 -6.391	10.0 -6.944	33.0 -3.8:4	0.0 -3.738	0.0 -3.889	.0.0 0.098
15.0 -4.607	15.0 -5.840	15.0 -6.095	15.0 -0.659	5.0 -3.990	15.0 -3.460	15.0 0.098
20.0 -4.965	20.0 -5.779	20.0 -5.549	23.0 -2.868	23.0 -479	20.0 -3.950	20.0 0.098
25.0 -4.941	25.0 -5.901	25.0 -3.549	25.0 -0.659	25.0 -4.053	25.0 -3.828	25.0 0.035
30.0 -4.965	30.0 -6.085	30.0 -5.124	35.0 -3.373	30.0 -3.738	30.0 -3.644	30.0 0.035
40.0 -4.4.3	43.0 -5.779	40.0 -4.699	43.3 -3.373	40.0 -5.738	40.0 -3.460	43.0 0.035
50.0 -4.543	50.0 -5.290	50.0 0.760	50.0 -3.373	50.0 -3.990	50.0 -3.521	50.0 -0.028
60.0 -4.604	60.0 -4.739	60,0 -4,214	63.0 -3.436	60.0 -3.738	60.0 -3.705	60.0 -0.028
61.5 -4.349	64.5 -4.250	64.5 -3.060	65 -1.290	61.5 -1.286	6:.5 -2.296	65 -0.091
62.5 -9.370	62.5-13.059	62.5 -9.189	64.5 -4.319	62.5 -4.745	62.5 -4,808	62,5 -0.091
65.0-14.3.7	65.0-16.975	65.0-13.253	65.0 -6.149	65.0 -7.637	65.0 -9.527	65.0 -0.091
70.0-11.270	70.0-13.365	70.0 -9.795	70.0 -5.518	70.0 -6.694	70.0 -7.566	70.0 -3.154
75.3 -6.447	75.0 -7.981	75.0 -5.852	75.0 -4.004	75.0 -4.556	75.3 -4.931	75.0 -0.154
75.6 -5.430	75.6 -6.513	75.6 -6.641	75.6 -3.878	75.6 -4.416	75.6 -3.337	75.6 -0.280
76.3 -8.246	76.3 -9.205	76.3 -8.582	70.3 -4.3.9	76.3 -4.933	76.3 0.339	76.3 -0.280
77.1 0.544	77.1-10.734	77.1 -6.459	77.1 -7.790	775.122	77.1 0.339	77.1 -0.280
78.0 4.738	78.6 7.130	78.6 6.584	78.6 1.138	78.6 0.601	78.6 0.768	78.6 -0.280
80.0 -6.065	80.0 -7.676	80.0 -4.821	80.0 -4.445	80.0 -3.613	80.0 -3.644	80.0 -2.343
85.0 -6.256	85.0 -5.290	85.0 -4.032	85.0 -3.247	85.0 -2.418	85.0 -2.296	85.0-25.685
90.0 -2.189	90.0 -1.068	90.0 -1.120	90.0 -1.669	90.0 -1.160	90.0 -1.070	90.0-25.622
95.0 -1.533	95.0 0.155	95.0 -0.696	95.0 -1.101	95.0 -0.783	95.0 -0.764	95.0 -0.405
2.5 1.370	2.5 8.782	2,5 5,250	2.5 0.477	2.5 1.670	2.5 0.339	2.5 0.349
5.0 4.674	5.0 7.374	5.0 4.886	5.0 0.729	5.0 2.544	5.0 0.339	5.0 0.349
7.5 4.132	7.5 5.845	7.5 3.794	7.5 0.918	7.5 0.60L	7.5 0,339	7.5 0.349
10.0 3.012	10.0 4.866	10.0 2.762	10.0 0.918	.0.0 1.167	10.0 0.339	10.0 0.098
15.0 1.497	15.0 4.683	15.0 1.610	15.0 0.729	.5.0 O.475	15.0 0.339	15.0 0.160
20.0 0.734	20.0 2.786	20.0124	23.0 0.792	20.0 0.664	20.0 0.401	20.0 0.035
30.0 0.226	30.0 0.645	30.0 0.821	30.0 0.918	30.0 0.789	30.0 0.339	30.0 -0.091
50.0 0.607	50.C 1.930	50.0 1.549	50.0 0.666	50.0 0.726	50.0 0.768	50.0 0.098
65.0 7.768	65.0 9.332	65.0 7.798	65.0 2.685	65.0 1.167	65.0 2.239	65.0 0.412
70.0 5.531	70.0 7.864	70.0 6.584	70.0 1.549	70.0 10.04	70.0 1.749	70.0 0.412
76.8 0.480	76.8 8.476	76.8 0.275	76.8 1.234	76.8 1.041	76.8 0.401	76.8 0.223
77.1 6.454	77.1 8.231	77.1 7.494	77.1 1.549	77.1 0.978	77.1 0.401	77.1 -0.280
80.0 5.771	80.0 8.476	80.0 8.101	80.0 1.297	80.0 2.104	80.0 1.688	80.0 0.160
85.0 5.246	85.3 6.579	85.0 5.917	85.0 0.918	85.0 4.104	85.0 1.136	85.0 0.286
90.0 4.293		90.0 4.036	90.0 1.045	90.0 0.915	90.0 0.891	90.0 0.160
95.0 2.450		95.0 2.762	95.0 0.792	95.0 0.664	95.0 0.768	95.0 0.035
TOTAL NORMAL						3 94
CN = 73.4	:.0-67	76	4.32	4.65	4.45	2.84

		TA	BLE V-67				
RUN 55. PO	INT 3	Q = 4.10	ALPHA =	O TCP =	2.50		
VALVE I	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100x CP
01.359	06.516	05.178	04.470	09.983	0. 1.297	0. 0.453	0. 1.520
1.2 -1.359	1.2 -2.436	1.2 -1.388	1.2 -1.845	1.2 -3.580	1.2 -1.599	1.2 1.318	1.2 1.375
2.5 -1.359	2.5 -2.535	2.5 -2.311	2.5 -2.350	2.5 -3.180	2.5 -1.648	2.5 1.463	2.5 2.681
5.0 -1.307	5.0 -3.567	5.0 -3.575	5.0 -3.612	5.0 -4.180	5.0 -1.402	5.0 1.126	5.0 1.375
7.5 -1.307	7.5 -3.764	7.5 -4.255	7.5 -1.189	7.5 -5.131	7.5 -0.519	7.5 1.415	7.5 1.423
10.0 -2.280	10.0 -3.125	10.0 -4.789	10.0 -4.571	10.0 -4.781	10.0 -1.402	10.0 -2.914	10.0 -2.350
15.0 -2.791	15.0 -3.911	15.0 -4.595	15.0 -0.937	15.0 -4.531	15.0 -2.384	15.0 -3.058	15.0 -2.253
20.0 -3.201	20.0 -3.862	20.0 -4.449	20.0 -4.521	20.0 -4.731	20.0 -3.513	20.0 -3.202	20.0 -2.350
25.0 -3.201	25.0 -4.206	25.0 -4.692	25.0 -1.442	25.0 -5.031	25.0 -3.954	25.0 -3.251	25.0 -2.447
30.0 -3.405	30.0 -4.452	30.0 -4.643	30.0 -5.126	30.0 -5.381	30.0 -4.396	30.0 -3.154	30.0 -2.350
40.0 -3.252	40.0 -4.452	40.0 -4.546	40.0 -4.975	40.0 -5.581	40.0 -4.641	40.0 -3.299	40.0 -2.495
50.0 -3.354	50.0 -4.353	50.0 1.283	50.0 -5.025	50.0 -6.282	50.0 -5.279	50.0 -3.347	50.0 -2.447
60.0 -3.456	60.0 -3.714	60.0 -4.498	60.0 -5.227	60.0 -6.582	60.0 -5.967	60.0 -3.491	60.0 -2.689
61.5 -2.894	61.5 -2.535	61.5 -2.846	61.5 -1.290	61.5 -4.080	61.5 -2.237	61.5 5.118	61.5 -1.141
62.5 -7.243	62.5-10.890	62.5-10.716	62.5 -9.266	62.5-10.834	62.5 -9.255	62.5 5.358	62.5 -3.946
65.0-12.258	65.0-15.215	65.0-15.817	65.0-15.373	65.0-16.437	65.0-16.763	65.0 -8.108	65.0 -6.026
70.0 -9.341	70.0-12.070	70.0-12.319	70.0-12.547	70.0-12.835	70.0-14.997	70.0 -7.002	70.0 4.857
75.0 -6.0.5	75.0 -7.745	75.0 -7.995	75.0 -7.953	75.0 -8.583	75.0 -9.549	75.0 1.463	75.0 -4.236
75.6 -4.940	75.6 -5.877	75.6 -7.704	75.6 -7.398	75.6 -9.233	75.6-10.236	75.6 -4.260	75.6 -3.753
76.3 -6.834	76.3 -8.236	76.3 -9.744	75.3 -8.306	76.3-10.984	76.3-11.659	76.3 -5.174	76.3 3.551
77.1 0.944	77.1 -9.563	77.1 -7.364	77.1 0.678	77.1-11.384	77.1-11.120	77.1 -5.222	77.1 0.842
78.6 3.349	78.6 4.985	78.6 4.441	78.6 4.262	78.6 3.724	78.6 3.800	78:6 0:597	78.6 5.970
80.0 -5.094	80.0 -6.319	80.0 -6.927	80.0 -7.650	80.0 -7.882	80.0 -7.782	80.0 -3.731	80.0 -3.753
85.0 -4.940	85.0 -4.157	85.0 -4.595	85.0 -4.672	85.0 -4.581	85.0 -3.709	85.0 -2.673	85.0 -2.398
90.0 -1.717	90.0 -0.815	90.0 -0.708	90.0 -0.533	90.0 -1.429	90.0 -0.421	90.0 -1.231	90.0 -0.851
95.0 -0.949	95.0 -0.077	95.0 0.360	95.0 0.527	95.0 -0.378	95.0 0.806	95.0 -0.509	95.0 -0.754
2.5 -0.540	2.5 5.919	2.5 3.227	2.5 3.152	2.5 5.675	2.5 1.199	2.5 1.415	2.5 1.375
5.0 1.046	5.0 4.936	5.0 4.150	5.0 4.363	5.0 5.125	5.0 1.248	5.0 1.367	5.0 1.568
7.5 1.456	7.5 4.051	7.5 3.713	7.5 3.657	7.5 1.823	7.5 1.199	7.5 1.222	7.5 1.471
10.0 1.916	10.0 3.412	10.0 2.935	10.0 2.849	10.0 3.674	10.0 1.297	10.0 0.837	10.0 1.036
15.0 1.763	15.0 3.363	15.0 1.915	15.0 1.385	15.0 1.122	15.0 1.346	15.0 0.789	15.0 0.697
20.0 1.609	20.0 3.314	20.0 1.381	20.0 1.082	20.0 1.172	20.0 1.346	20.0 0.693	20.0 1.133
30.0 0.790	30.0 0.955	30.0 1.186	30.0 1.032	30.0 1.122	30.0 1.395	30.0 0.982	30.0 0.552
50.0 0.944	50.0 2.380	50.0 2.401	50.0 2.698	50.0 1.723	50.0 1.984	50.0 1.030	50.0 0.504
65.0 4.730	65.0 5.919	65.0 5.656	65.0 6.029	65.0 6.025	65.0 4.438	65.0 5.647	65.0 0.746
70.0 4.014	70.0 6.017	70.0 5.461	70.0 5.726	70.0 5.525	70.0 3.456	70.0 0.405	70.0 0.891
76.8 0.944	76.8 6.263	76.8 0.263	76.8 5.777	76.8 5.725	76.8 5.321	76.8 0.597	76.8 0.842
77.1 4.526	77.1 5.771	77.1 5.170	77.1 5.221	77.1 5.075	77.1 4.830	77.1 0.645	77.1 0.649
80.0 4.730	80.0 6.263	80.0 5.753	80.0 6.029	80.0 5.975	80.0 4.634	80.0 0.501	80.0 0.794
85.0 5.089	85.0 6.361	85.0 5.510	85.0 5.625	85.0 5.925	85.0 6.106	85.0 0.549	85.0 0.939
90.0 3.963	90.0 5.919	90.0 4.830	90.0 4.717	90.0 5.175	90.0 5.763	90.0 0.501	90.0 0.842
95.0 3.042		95.0 3.955	95.0 3.707	95.0 4.424	95.0 5.125	95.0 3.242	95.0 0.697
TOTAL NORMAL		~					
CN = 5.59	8.67	7.17	8 o 25	9.26	7.97	4.31	2.49

		r	ABLE V-68				
RUN 55+ PO	INT 6	0 = 4.11	ALPHA = 1	.2 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	1GOX CP	100X CP	100X CP	100X CP	100X CP
06.051	J6.598	03.566	00.532	08.712	0. 1.049	0. 0.500	0. 1.323
1.2 -1.968		1.2 -2.597	1.2 -2.949	1.2 -4.470	1.2 -3.308	1.2 1.219	1.2 1.419
2.5 -2.345	2.5 -4.196	2.5 -4.293	2.5 -4.359	2.5 -4.819	2.5 -3.308	2.5 1.219	2.5 3.157
5.0 -2.325	5.0 -5.323	5.0 -6.231	5.0 -6.071	5.0 -5.518	5.0 -4.728	5.0 1.219	5.0 1.226
7.5 -2.325 10.0 -3.959	7.5 -5.029	7.5 -6.619	7.5 -1.791	7.5 -6.216	7.5 -5.267	7.5 1.219	7.5 1.178
15.0 -4.061	10.0 -3.754 15.0 -5.372	10.0 -7.007 15.0 -6.231	10.0 -6.574 15.0 -1.287	10.0 -5.817 15.0 -5.717	10.0 -5.365 15.0 -5.414	10.0 -5.498 15.0 -5.354	10.0 -4.419 15.0 -4.130
20.0 -4.307	20.0 -5.225	20.0 -5.795	20.0 -5.869	20.0 -6.017	20.0 -6.099	20.0 -5.306	20.0 -4.081
25.0 -4.103	25.0 -5.372	25.0 -5.892	25.0 -1.942	25.0 -6.616	25.0 -6.197	25.0 -5.162	25.0 -4.081
30.0 -4.214	30.0 -5.323	30.0 -5.601	30.0 -6.071	30.0 -6.765	30.0 -6.295	30.0 -4.922	30.0 -3.599
40.0 -3.652	40.0 -4.931	40.0 -5.117	40.0 -5.567	40.0 -6.666	40.0 -6.197	40.0 -4.634	40.0 -3.792
50.0 -3.448	50.0 -4.539	50.0 1.038	50.0 -5.416	50.0 -7.314	50.0 -6.540	50.0 -4.442	50.0 -3.551
60.0 -3.193		60.0 -4.632	60.0 -5.315	60.0 -7.264	60.0 -7.127	60.0 -4.874	60.0 -4.033
61.5 -2.734		61.5 -2.887	62.5 -0.733	61.5 -4.021	61.5 -2.280	61.5 5.585	61.5 -1.958
62.5 -5.898		62.5 -8.364	62.5 -7.078	62.5-11.257	62.5-10.260	62.5 5.873	62.5 -6.156
65.0 -8.757 70.0 -5.847		65.0-11.756	65.0-11.962	65.0-17.295	65.0-18.975	65.0-10.823	65.0 -9.003
75.0 -3.091	70.0 -5.078 75.0 -2.872	70.0 -7.782 75.0 -4.244	70.0 -9.243 75.0 -5.466	70.0-13.652	70.0-17.604 75.0-11.827	70.0 -9.672 75.0 1.651	70.0 5.280 75.0 -7.121
75.6 -3.550	75.6 -4.245	75.6 -4.729	75.6 -4.459	75.0 -9.011 75.6 -9.859	75.6-13.051	75.6 -6.745	75.6 -6.205
76.3 -4.4.8	76.3 -5.372	76.3 -5.844	76.3 -4.510	76.3-11.007	76.3-15.107	76.3 -7.944	76.3 4.073
77.1 0.840	77.1 -4.735	77.1 -3.711	77.1 0.929	77.1-11.157	77.1-14.471	77.1 -8.184	77.1 0.744
78.6 4.4.3	78.6 5.708	78.6 5.060	78.6 4.504	78.6 4.014	78.6 4.721	78.6 0.404	78.6 6.389
80.0 -2.887	80.0 -2.627	80.0 -3.421	80.0 -4.963	80.0 -8.861	80.0-10.701	80.0 -6.025	80.0 -6.446
85.0 -2.785	85.0 -2.087	85.0 -2.548	85.0 -3.603	85.0 -4.869	85.0 -5.903	85.0 -4.490	85.0 -3.599
90.0 -1.508	90.0 -1.450	90.0 -1.046	90.0 -1.086	90.0 -1.475	90.0 -1.203	90.0 -2.283	90.0 -2.007
95.0 -0.998	95.0 -1.205	95.0 -0.464	95.0 -0.481	95.0 -0.627	95.0 0.412	95.0 -1.468	95.0 -1.958
2.5 2.728	2.5 6.836	2.5 3.752	2.5 1.180	2.5 7.008	2.5 1.098	2.5 1.315	2.5 1.226
5.0 4.208 7.5 3.647	5.0 5.855 7.5 4.777	5.0 2.928	5.0 1.231	5.0 6.160	5.0 1.049	5.0 1.171	5.0 1.275
10.0 2.340	7.5 4.777 10.0 4.041	7.5 2.201 10.0 1.668	7.5 1.080 10.0 1.029	7.5 2.567 10.0 4.563	7.5 1.098 10.0 1.098	7.5 1.267 10.0 0.883	7.5 1.275 10.0 1.226
15.0 1.044	15.0 3.943	15.0 1.232	15.0 0.727	15.0 1.269	15.0 1.196	15.0 1.027	15.0 0.840
20.0 0.686	20.0 3.845	20.0 1.038	20.0 0.626	20.0 1.369	20.0 1.147	20.0 0.835	20.0 0.985
30.0 0.584	30.0 0.903	30.0 0.893	30.0 0.727	30.0 1.369	30.0 1.245	30.0 0.979	30.0 0.647
50.0 0.942	50.0 1.835	50.0 1.329	50.0 1.885	50.0 1.269	50.0 1.832	50.0 0.835	50.0 0.551
65.0 6.250	65.0 7.228	65.0 6.223	65.0 5.309	65.0 7.208	65.0 6.336	65.0 6.209	65.0 0.551
70.0 4.413	70.0 5.610	70.0 4.770	70.0 5.058	70.0 6.010	70.0 6.092	70.0 0.356	70.0 0.696
76.8 0.840	76.8 6.199	76.8 0.359	76.8 5.410	76.8 5.461	76.8 7.071	76.8 0.548	76.8 0.840
77.1 5.280	77-1 6-248	77.1 5.690	77.1 5.158	77.1 5.511	77.1 5.945	77.1 0.691	77.1 0.358
80.0 5.893 85.0 3.902	80.0 6.297 85.0 4.482	80.0 5.690 85.0 4.091	80.0 5.662	80.0 6.010	80.0 6.728	80.0 0.500	80.0 0.551
90.0 2.932	90.0 3.502	85.0 4.091 90.0 2.783	85.0 4.453 90.0 3.245	85.0 4.513 90.0 3.415	85.0 7.071 90.0 6.532	85.0 0.308 90.0 0.212	85.0 0.744 90.0 0.840
95.0 1.860		95.0 1.862	95.0 2.288	95.0 2.916	90.0 6.532 95.0 5.749	95.0 3.618	95.0 0.599
TOTAL NORMAL					20177		230 30277
CN = 5.38	7.91	6.30	7.36	10.11	10.51	5.80	3.76

RUN 55, PO1	INT 7	Q = 4.16	ALPHA = 1	6 TCP =	2.50	<del></del>	
VALVE 1	E BYJAN	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	1COX CP	100X CP	100X CP	100X CP	100X CP
02.933	05.938	00.986	J0.824	07.966	0. 1.036	0. 0.635	J. 1.259
1,2 -1,743	1.2 -3.952	1.2 -2.757	1.2 -3.262	1.2 -5.008	1.2 -3.462	1.2 1.204	1.2 1.354
2.5 -1.541	2.5 -4.630	2.5 -4.960	2.5 -4.854	2.5 -5.008	2.5 -3.801	2.5 1.299	2.5 3.166
5.0 -1.642	5.0 -5.696	5.0 -6.444	5.0 -6.346	5.0 -6.290	5.0 -5.542	5.0 1.204	5.0 1.211
7.5 -1.642	7.5 -5.550	7.5 -6.923	7.5 -1.869	7.5 -6.832	7.5 -6.171	7.5 2.441	7.5 1.211
10.0 -4.104	10.0 -3.903	10.0 -7.162	10.0 -6.794	10.0 -6.389	10.0 -5.978	10.0 -5.716	10.0 -4.939
15.0 -4.406	15.3 -5.599	15.0 -6.348	15.0 -1.272	15.3 -6.290	15.0 -5.833	15.0 -5.479	15.0 -4.414
20.0 -4.668	20.0 -5.453	20.0 -5.917	20.0 -5.998	40.0 -6.684	20.0 -6.655	23.0 -5.621	20.0 -4.605
25.0 -4.264	25.0 -5.599	25.0 -5.965	25.0 -1.919	25.0 -7.325	25.0 -6.655	25.0 -5.527	25.0 -4.414
30.0 -4.204	30.0 -5.453	30.0 -5.582	30.0 -5.998	30.0 -7.325	30.0 -6.606	30.0 -5.147	30.0 -4.080
40.0 -3.609	40.0 -4.775	40.0 -5.008	40.0 -5.501	40.0 -7.276	40.0 -6.461	40.0 -5.205	40.0 -4.033
50.0 -3.407	50.0 -4.097	50.0 0.977	50.0 -5.103	50.0 -7.769	50.0 -6.752	50.0 -4.768	50.0 -4.080
60.0 -3.155	60.0 -4.775	60.0 -4.385	60.0 -4.904	60.0 -7.572	60.0 -7.380	60.0 -5.147	60.0 -4.176
61.5 -2.449	61.5 -2.596	61.5 -2.470	6.05 -0.725	51.5 -4.416	61.5 -2.447	61.5 5.612	61.5 -2.364
62.5 -5.071	62.5 -6.519	62.5 -7.402	62.5 -6.297	62.5-1C.727	62.5-10.718	62.5 5.944	62.5 -6.512
65.0 -6.735	65.0 -8.796	65.0-10.370	65.0 -9.729	65.0-16.743	65.0-19.328	65-0-11-357	65.0 -9.754
70.0 -4.608	70.0 -2.644	70.0 -6.396	70.0 -6.645	70.0-12.897	70.0-17.828	70.0 -9.935	70.0 5.264
75.0 -2.550	75.0 -2.789	75.0 -3.715	75.0 -4.456	75.0 -8.607	75.0-11.975	75.0 1.489	75.0 -7.465
75.6 -3.306	75.6 -3.322	75.6 -3.523	75.6 -3.361	75.5 -9.002	75.6-12.943	75.6 -7.328	75.6 -6.702
76.3 -4.104	76.3 -3.467	76.3 -4.529	76.3 -3.461	76.3-10.284	76.3-15.119	76.3 -8.560	76.3 4.119
77.1 0.829	77.1 -3.371	77.1 -2.805	77.1 0.967	77.1-10.284	77-1-14-345	77.1 -8.655	77.1 0.592
78.6 4.410	78.5 4.767	78.6 4.856	78.6 3.952	78.6 2.881	78.6 4.809	78.6 0.541	78.6 6.455
80.0 -1.995	80.0 -2.450	80.0 -3.045	80.0 -4.008	80.0 -8.262	80.0-10.863	80.0 -6.522	80.0 -6.798
85.0 -1.995			85.0 -3.113		85.0 -6.074	85.0 -4.768	85.0 -3.985
90.0 -1.087	90.0 -1.045	90.0 -0.842	90.0 -0.924	90.0 -1.803	90.0 -1.479	90.0 -2.543	90.0 -2.364
95.0 -0.986	95.0 -1.045	95.0 -0.411	95.0 -0.277	95.0 -0.768	95.0 0.165	95.0 -1.498	95.0 -2.364
2.5 2.897	2.5 6.996	2.5 2.701	2.5 0.619	2.5 6.874	2.5 1.036	2.5 1.157	2.5 1.068
5.0 3.502	5.0 5.978	5.0 1.887	5.0 1.166	5.0 5.790	5.0 1.036	5.0 1.346	5.0 1.307
7.5 2.241	7.5 4.913	7.5 1.456	7.5 0.718	7.5 2.240	7.5 1.036	7.5 1.204	7.5 1.116
10.0 1.655	13.0 4.138	10.0 1.312	13.0 1.066	20.0 4.261	10.0 1.084		19.0 1.164
15.0 0.880	15.0 4.186	15.0 1.121	15.0 0.469	15.0 0.909	15.0 1.181	15.0 0.967	15.0 0.735
20.0 0.779	23.0 4.041	20.0 0.977	20.0 0.559	20.0 1.007	20.0 1.133	20.0 0.967	20.0 0.925
30.0 0.476	30.0 1.037	30.0 0.977	30.0 0.519	30.0 1.007	30.0 1.229	30.0 0.967	30.0 3.496
50.0 0.829	50.0 1.716	50.0 1.265	50.0 1.514	50.0 0.613	50.0 1.810	50.0 0.872	50.0 0.496
65.0 5.640	65.0 6.753	65.0 5.861	65.0 5.195	65.0 6.579	65.0 6.405	65.0 6.181	65.0 0.353
70.0 3.754	70.0 4.380	79.0 4.137	70.0 4.250	70.0 4.952	70.0 6.308	70.0 0.351	70.0 0.639
76.8 0.779	76.8 5.252	76.8 0.451	76.8 4.648	76.8 4.212	76.8 7.227	76.8 0.304	76.8 0.687
77.1 5.015	77.1 5.494	77.1 5.334	77.1 4.549	77.1 4.459	77.1 6.115	77.1 0.683	77.1 0.353
80.0 5.469	80.0 4.913	83.0 4.808	80.0 4.947	80.0 4.804	80.0 6.889	80.0 0.635	80.0 0.449
85.0 3.5.2	85.0 3.459	85.0 3.228	85.0 3.603	85.0 3.522	85.0 7.082	85.0 0.161	85.0 0.687
90.0 2.594	90.0 2.830	90.0 2.126	90.0 2.509	90.0 2.092	90.0 6.453	90.0 0.019	90.0 0.687
95.0 1.787	95.0 2.200		95.0 1.713	95.0 1.993	95.0 5.679	95.0 3.622	95.0 0.592
TOTAL NORMAL						T	
= 4.86	7.40	5.88	6.59	9.69	10.84	6.01	3.95
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		TAI	BLE V-70				
RUN 53, POI	NT 5	Q = 3.26	ALPHA =	8 TCP =	4.00		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP						
03.8.5	08.929	03.938	01.107	013.744	0. 1.330	0. 0.516	0. 2.223
1.2 -2.2.6	1.2 -4.293	1.2 -2.106	1.2 -3.837		1.2 -3.300	1.2 1.544	1.2 1.797
2.5 -2.602	2.5 -4.602	2.5 -4.122	2.5 -5.043	2.5 -5.754	2.5 -3.114	2.5 1.726	2.5 -0.819
5.0 -2.602	5.0 -5.900	5.0 -6.321	5.0 -6.567	5.0 -6.760	5.0 -3.238	5.0 1.665	5.0 1.614
7.5 -2.538	7.5 -6.024	7.5 -7.299	7.5 -2.123	7.5 -7.578	7.5 -3.423	7.5 1.786	7.5 1.493
10.0 -3.503	10.0 -4.417	10.0 -7.604	10.0 -7.392	10.0 -7.138	10.0 -3.855	10.0 -5.109	10.0 -4.104
15.0 -4.082	15.0 -6.333	15.0 -7.055	15-0 -1-742	15.0 -7.012	15.0 -4.781	15.0 -4.928	15.0 -3.678
20.0 -4.597	20.0 -6.395	20.0 -6.749	20.0 -6.884	20.0 -7.327	20.0 -5.954	20.0 -4.983	20.0 -3.739
25.0 -4.409	25.0 -6.519	25.0 -6.993	25.0 -2.377	25.0 -7.893	25.0 -6.509	25.0 -5.109	25.0 -3.800
30.0 -4.597	30.0 -6.580	30.0 -6.810	30.0 -7.392	30.0 -8.270	30.0 -6.818	30.0 -4.746	30.0 -3.496
40.0 -4.147	40.0 -6.333	40.0 -6.382	40-0 -6-948	40.0 -8.396	40.0 -7.365	40.0 -4.625	40.0 -3.678
50.0 -4.211	53.0 -6.086	50.0 1.194	50.0 -6.948	50.0 -9.340	50.0 -7.744	50.0 -4.565	50.0 -3.678
60.0 -4.404	60.0 -5.777	60.0 -6.077	60.0 -7.075	60.0 -9.654	60.0 -8.546	60.0 -4.867	60.0 -3.861
61.5 -4.018	61.5 -4.726	61.5 -4.549	61.5 -2.377		61.5 -2.621	61.5 3.057	61.5 -1.914
62.5 -8.780	62.5-14.740	62.5-12.981	62.5-11.138	62.5-15.380	62.5-13.299	62.5 2.875	62.5 -5.868
65.0-15.344 70.0-11.033	65.0-21.539	65.0-17.991	65.0-18.311	65.0-23.748	65.0-24.470	65.0-11.884	65.0 -8.667 70.0 2.709
75.0 -7.043	70.0-17.089 75.0-11.031	70.0-12.981	70.0-14.122	70.0-18.211	70.0-22.495	70.0-10.734 75.0 1.786	70.0 2.709 75.0 -7.085
75.6 -6.592		75.0 -8.154	75.0 -9.106	75.0-12.297	75.0-15.027		75.6 -6.416
76.3 -8.567	75.6 -9.115 76.3-12.576	75.6 -8.276 76.3-10.965	75.6 -8.472 76.3 -9.424	75.6-14.122 76.3-16.261	75.6-17.064 76.3-19.656	75.6 -7.347 76.3 -8.678	76.3 0.884
77.1 0.937		77.1 -7.238	77.1 -2.821	77.1-16.764	77.1-18.977	77.1 -8.920	77.1 0.823
78.6 5.184	78.6 7.204	78.6 6.693	78.6 6.130	78.6 5.068	78.6 5.835	78.6 0.335	78.6 3.744
80.0 -6.013	80.0 -9.424	80.0 -6.016	80.0 -9.297	80.0-12.486	80.0-13.669	80.0 -6.863	80.0 -6.477
85.0 -5.563	85.0 -5.406		85.0 -6.313		85.0 -7.620	85.0 -5.109	85.0 -4.104
90.0 -2.216	90.0 -1.203	90.0 -1.495	93.0 -1.552	90.0 -2.797	90.0 -1.386	90.0 -2.629	90.9 -1.975
95.0 -1.573	95.0 -0.275	95.0 -1.006	95.0 -1.488	95.0 -1.538	95.0 0.712	95.0 -1.722	95.0 -2.097
2.5 0.358	2.5 8.811	2.5 4.921	2.5 1.813	2.5 8.969	2.5 1.391	2.5 1.847	2.5 1.554
5.0 3.061	5.0 7.389	5.0 5.104	5.0 1.559	5.0 7.648	5.0 1.391	5.0 1.847	5.0 1.797
7.5 4.348	7.5 5.968	7.5 3.577	7.5 1.622	7.5 2.740	7.5 1.330	7.5 1.605	7.5 1.614
10.0 4.090	10.0 4.979	10.0 2.782	10.0 0.734	10.0 5.257	10.0 1.453	10.9 0.879	10.0 1.249
15.0 2.224	15.0 4.917	15.0 1.621	15.0 0.607	15.0 1.167	15.0 1.577	15.0 0.940	15.0 0.884
20.0 1.259	23.0 4.051	20.0 1.377	20.0 0.734	20.0 1.230	20.0 1.453	20.0 0.940	20.0 1.249
30.0 0.615	30.0 1.270	30.0 1.072	30.0 0.670	30,0 1.167	30.0 1.762	30.0 1.061	30.0 0.702
50.0 1.066	50.0 2.135	50.0 1.866	50.0 2.130	50.0 1.419	50.0 2.379	50.0 0.819	50.0 0.519
65.0 8.531	65.0 9.244	65.0 7.915	65.0 8.288	65.0 8.969	65.0 7.872	65.0 3.420	65.0 0.702
70.0 5.704	70.0 7.637		70.0 7.653	70.0 7.899	70.0 6.453	70.0 0.153	70.0 0.823
76.8 3.001	76.8 8.440	76.8 0.277	76.8 7.590	76.8 7.585	76.8 9.045	76.8 0.274	76.8 0.702
77.1 6.729 80.0 8.402	77.1 8.317	77.1 7.609	77.1 7.082	77-1 6-830	77.1 7.564	77.1 0.577	77.1 0.337
	80.0 8.996	80.0 8.098	80.0 8.098	80.0 8.151	80.0 8.366	80.0 0.456	80.0 0.519
85.0 6.278 90.0 4.477	85.0 6.957	85.0 6.204	85.0 6.574	85.0 6.389	85.0 9.230	85.0 0.214	85.0 0.763
95.0 4.477	90.0 5.968 95.0 4.175	90.0 4.493 95.0 2.966	90.0 4.987 95.0 3.717	90.0 5.508 95.0 4.250	90.0 8.551 95.0 7.564	90.0 0.153	90.0 0.763 95.0 0.641
TOTAL NORMAL		7000 20700	95.0 3.717	95.0 4.250	95.0 7.564	95.0 4.448	95.0 0.641
CN = 7.40	11.86	8.61	10.16	13.11	12.57	5.56	3.96
UIT - 1870	77000	0.07	10010	T Se T T	\$2001	2020	2670

			TAE	BLE V-71				
RUN	53, PO	INT 6	Q = 3.14	ALPHA = 1	2 TCP =	4.00		
VAI	VE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100x		133X CP	100X CP	130X CP	200X CP	100X CP	100X CP	100X CP
	-4.571	09.911	02.502	02.269	013.223	0. 1.446	0. 0.663	0. 2.182
	-2.701	1.2 -4.777	1.2 -2.692	1.2 -3.983	1.2 -5.711	1.2 -3.937	1.2 1.793	1.2 1.993
2.5	-2.768	2.5 -5.098	2.5 -5.230	2.5 -5.235	2.5 -6.038	2.5 -3.809	2.5 1.793	2.5 -0.533
5.0	-2.763	5.0 -6.510	5.0 -7.133	5.0 -7.081	5.0 -6.952	5.0 -4.450	5.0 1.730	5.0 1.740
	-2.768	7.5 -6.317	7.5 -7.830	7,5 -2,137	7.5 -7.867	7.5 -5.155	7.5 1.856	7.5 1.424
	-4.171	10.0 -4.841	10.0 -8.338	10.0 -7.937	10.0 -7.214	10.0 -5.475	10.0 -5.931	10.0 -4.828
	-4.7.5	15.0 -6.702	15.0 -7.513	15.0 -1.676	15.0 -7.214	15.0 -5.988	15.0 -5.680	15.0 -4.386
	-4.972	23.0 -6.574	20.0 -7.006	27.0 -7.146	20.0 -7.736	20.0 -7.013		20.0 -4.323
	-4.906	25.0 -6.831	25.0 -7.196	25.0 -2.335	25.0 -8.520	25.0 -7.333	25.0 -5.492	25.0 -4.260
	-4.772	33.3 -6.574	30.0 -6.816	30.0 -7.476	30.0 -8.520	30.0 -7.590	30.0 -5.115	30.0 -3.881
	-4.171 -4.164	40.0 -5.996	40.0 -6.308	46.0 -7.081	40.0 -8.651	40.0 -7.590	40.0 -5.052	40,0 -4,007 50,0 -4,007
	-3.903	50.0 -5.355 60.0 -5.868	50.0 1.177 60.0 -5.801	50.0 -6.817 60.0 -7.015	50.0 -9.565 60.0 -9.892	50.0 -8.295 60.0 -9.128	50.0 -4.864 60.0 -5.115	60.0 -4.260
	-3.705 -3.25	51.5 -3.494	61.5 -3.707	61.5 -2.203	61.5 -5.907	61.5 -2.976	61.5 3.551	61.5 -2.112
	-7.5.1	62.5-10.810	62.5-11.573	62.5-10.969	62.5-15.509	62.5-13.485	62.5 3.488	62.5 -6.407
	-11-1-9	65.0-14.853	65.0-16.457	65-0-17-494	65.0-23.805	65.0-25.148	65.0-12.023	65.0 -9.565
	-9.048	70.0-10.425	70.0-11.129	70.0-12.749	70.0-18.971	70.0-23.610	70.0-10.829	70.0 3.130
	-3.035	75.0 -4.007	75.0 -6.942	75.0 -8.794	75.0-12.505	75.0-15.664	75.0 2.484	75.0 -7.797
	-5.5.7	75.6 -6.382	75.6 -7.260	75.6 -7.476	75.6-13.680	75.6-17.651	75.6 -7.815	75.6 -7.292
	-6.375	76.3 -7.665	76.3 -8.211	76.3 -8.531	76.3-15.575	76.3-20.534	76.3 -8.946	76.3 1.172
77.1	3.9.7	77.1 -6.446	77.1 -5.927	77.1 -2.665	77.1-15.967	77.1-19.509	77.1 -9.197	77.1 0.667
78.6	6.052	78.6 7.801	78.6 7.203	78.6 6.233	78.6 5.589	78.6 6.572	78.6 0.411	78.6 4.140
80.0	~4.257	80.0 -4.200	80.0 -6.372	80.0 -7.806	80.0-12.962	80.0-14.511	80.0 -7.250	80.0 -7.039
	-4.037	85.0 -3.494	85.0 -4.151	85.0 -5.499	85.0 -7.083	85.0 -8.102	85.0 -5.492	85.0 -3.881
	-1.899	90.0 -1.568	90.0 -1.043	90.0 -1.346	90.0 -2.249	90.0 -1.630	90.0 -2.854	90.0 -2.239
	-1.104	95.0 -1.119	95.0 -0.536	95.0 -0.358	95.0 -0.877	95.0 0.549	95.0 -1.787	95.0 -2.176
2.5		2.5 9.470	2.5 5.617	2.5 2.081	2.5 9.705	2.5 1.446	2.5 1.730	2.5 1.614
5.0		5.0 8.058	5.0 4.095	5.0 2.015	5.0 8.464	5.0 1.446	5.0 1.856	5.0 1.867
7.5		7.5 6.518	7.5 3.143	7.5 1.488	7.5 3.499	7.5 1.446	7.5 1.981	7.5 1.867
10.0		10.0 5.427. 15.0 5.427	10.0 2.192 15.0 1.431	10.0 1.026 15.0 0.895	10.0 6.047 15.0 1.605	10.0 1.510 15.0 1.638	10.0 1.291 15.0 1.165	10.0 1.488 15.0 0.919
20.0		20.0 3.437	20.0 1.177	20.0 0.763	20.0 1.735	20.0 1.638	20.0 1.165	20.0 1.172
30.0		30.0 1.319	30.0 1.177		30.0 1.670	30.0 1.766	30.0 1.228	30.0 0.793
50.0		50.0 2.282	50.0 1.811	50.0 2.476	50.0 1.605	50.0 2.727	50.0 1.102	50.0 0.603
65.0		65.0 10.047	65.0 8.282	65.0 8.408	65.0 10.097	65.0 8.495	65.0 3.991	65.0 0.856
70.0		70.0 7.865	70.0 6.632	70.0 7.156	70.0 8.464	70.0 7.854	70.0 0.097	70.0 0.919
76.8		76.8 8.443	76.8 0.352	76.8 7.815	76.8 7.418	76.8 9.712	76.8 0.286	76.8 0.793
77.1	7.455	77.1 8.507	77.1 7.774	77.1 7.288	77.1 7.614	77.1 8.366	77.1 0.725	77.1 0.351
80.0	8,945	80.0 8.058	80.0 8.599	80.0 7.749	80.0 8.855	80.0 9.392	80.0 0.349	80.0 0.477
85.0		85.0 6.068	85.0 5.935	85.0 6.365	85.0 6.504	85.0 9.904	85.0 0.474	85.0 0.919
90.0		90.0 5.234	90.0 4.095	90.0 4.717	90.0 5.067	90.0 9.135	90.0 0.286	90.0 0.793
95.0		95.0 3.630	95.0 2.636	95.0 3.201	95,0 4,348	95.0 8.238	95.0 5.435	95,0 0,667
		COEFFICIENT						4 20
CN =	6.70	10.50	8.39	10.04	13.63	13.65	6.05	4.35

			TA	BLE V-72				
RUN	53 PO	INT 8	Q = 2.96	ALPHA = 1	.8 TCP =	4.00		
VAL	VE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE B	VALVE 9
100X	ČР	100X CP						
0.	-7.107	09.423	00.365	00.588	012.709	0. 1.331	0. 0.771	0. 1.915
1.2	-2.154	1.4 -5.543	1.2 -3.662	1.2 -4.503	1.2 -7.096	1.2 -4.515	1.2 1.637	1.2 1.580
	-2.792	2.5 -6.223	2.5 -5.882	2.5 -6.461	2.5 -7.373	2.5 -4.719	2.5 1.837	2.5 0.173
	-2.792	5.0 -7.381	5.0 -8.507	5.0 -8.278	5.0 -8.205	5.0 -6.418	5.0 1.770	5.0 1.781
	-2.792	7.5 -7.381	7.5 -8.978	7.5 -2.475	7,5 -9,106	7.5 -7.098	7.5 1.704	7.5 1.245
	-4.919 -5.445	10.0 -6.155 15.0 -7.789	10.0 -9.449 15.0 -8.238	10.0 -8.628	10.0 -8.482	10.0 -7.234	10.0 -7.289	10.0 -5.790
	-5.627	20.0 -7.585	20.0 -7.565	15.0 -1.776 20.0 -7.579	15.0 -8.621 20.0 -9.106	15.0 -7.438 20.0 -8.458	15.0 -6.890 20.0 -6.557	15.0 -5.321 20.0 -5.321
	-5.273	25.0 -7.585	25.0 -7.699	25.0 -2.545	25.0-10.145	25.0 -8.593	25.0 -6.557	25.0 -5.053
	-5.202	30.0 -7.108	30.0 -7.296	30.0 -7.929	30.0 -9.799	30.0 -8.593	30.0 -5.890	30.0 -4.651
	-4.493	40.0 -6.223	40.0 -6.421	40.0 -7.230	40.0 -9.868	40.0 -8.458	40.0 -5.624	40.0 -4.651
50.0	-3.997	50.0 -5.611	50.0 1.048	50.0 -6.950	50.0-10.561	50.0 -9.001	50.0 -5.491	50.0 -4.450
60.0	-3.997	60.0 -5.815	60.0 -5.882	60.0 -6.810	60.0-10.561	60.0 -9.817	60.0 -6.024	60.0 -4.852
	-2.580	62.5 -2.956	61.5 -4.066	61.5 -2.335	61.5 -6.750	61.5 -4.175	61.5 4.302	61.5 -2.038
	-6.701	62.5 -9.491	62.5-10.929	62.5 -9.677	62.5-15.203	62.5-14.915	62.5 4.302	62.5 -7.063
	-9.384	65.0-12.623	65.0-14.698	65.0-15.480	65.0-23.934	65.0-27.220	65.0-13.951	65.0-11.217
	-7.612	70.0 -2.819	70.0 -8.372	70.0-11.355	70.0-18.945	70.0-25.384	70.0-12.419	70.0 3.925
	-3,430	75.0 -4.045	75.0 -4.873	75.0 -6.810	75.0-12.432	75.0-16.683	75.0 2.303	75.0 -8.403
	-4.635	75.6 -4.317	75.6 -5.008	75.6 -5.272	75.6-12.847	75.6-19.062	75.6 -8.622	75.6 -7.733
	-6.053 0.893	76.3 -4.589	76.3 -6.623	76.3 -5.552	76.3-15.481	76.3-22.189	76.3-10.354	76.3 2.049
78.6		77.1 -4.385 78.6 6.712	77.1 -4.133 78.6 6.903	77.1 -2.405 78.6 6.194	77.1-15.411	77.1-21.034	77-1-10-620	77.1 0.575
	-3.501	83.0 -3.772	80.0 -4.133	80.0 -6.531	78.6 4.129 80.0-12.640	78.6 7.042 80.0-15.799	78.6 0.505 80.0 -7.889	78.6 4.997 80.0 -7.398
	-3.765	85.0 -2.547	85.0 -2.922	85.0 -4.503	85.0 -6.542	85.0 -8.661	85.0 -6.157	85.0 -5.455
	-1.658	90.0 -1.594	90.0 -1.576	90.0 -1.357	90.0 -2.453	90.0 -2.204	90.0 -3.426	90.0 -2.507
	-0.606	95.0 -1.526	95.0 -0.836	95.0 -0.518	95.0 -1.068	95.0 0.108	95.0 -2.160	95.0 -2.105
2.5		2.5 10.047	2,5 3,134	2.5 0.601	2.5 10.227	2.5 1.331	2.5 1.837	2.5 1.379
5.0	5.2.7	5.0 8.754	5.0 2.731	5.0 1.160	5.0 8.633	5.0 1.331	5.0 1.637	5.0 1.714
7.5	3.657	7.5 6.916	7.5 2.125	7.5 0.881	7.5 3.229	7.5 1.399	7.5 1.904	7.5 1.714
		10.0 5.690	10.0 1.789	10.0 0.811	10.0 6.139	10.0 1.467	10.0 0.971	10.0 1.446
15.0	0.964	15.0 5.826	15.0 1.385	15.0 0.951	15.0 1.150	15.0 1.535	15.0 0.971	15.0 0.843
20.0	0.610	23.0 3.444	20.0 1.116	20.0 0.531	20.0 1.358	20.0 1.603	20.0 1.171	20.0 0.977
30.0	0.5.9	30.0 1.129	30.0 1.116	30.0 0.671	30.0 1.358	30.0 1.671	30.0 1.304	30.0 0.575
50.0	1.106	50.0 1.946	50.0 1.452	50.0 2.069	50.0 0.595	50.0 2.351	50.0 1.171	50.0 0.441
65.0	7.261	65.0 9.298	65.0 7.845	65.0 7.243	65.0 10.227	65.0 9.353	65.0 5.035	65.0 0.441
70.0	0.893	70.0 5.214 76.8 6.984	70.0 5.355 76.8 0.443	70.0 6.754	70.0 6.901	70.0 9.013	70.0 0.172	70.0 0.709
77.1	7.555	77.1 7.597	77.1 7.306	76.8 6.964 77.1 6.684	76.8 6.278 77.1 6.555	76.8 10.508 77.1 9.013	76.8 0.438 77.1 0.771	76.8 0.575 77.1 0.106
80.0	8.193	80.0 7.324	80.0 6.701	80.0 7.383	80.0 7.248	80.0 10.237	80.0 0.638	80.0 0.374
85.0	5.247	85.0 4.533	85.0 4.144	85.0 5.006	85.0 5.238	85.0 10.644	85.0 0.305	85.0 0.642
90.0	3.445	90.0 3.512	90.0 2.865	90.0 3.538	90.0 3.922	90.0 9.625	90.0 0.105	90.0 0.709
95.0		95.0 2.763					95.0 4.768	95.0 0.709
TOTAL	NORMAL	COEFFICIENT		<b></b>				
	6.42	9.78	7.69	9.27	13.74	14.87	6.95	4.73

			BLE V-73				
RUN 54, POI	NT 3	Q = 8.14	ALPHA =	O TCP =	0.		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP							
02.245	J1.514	J1.717	01.681	02.044	0. 0.565	0. 0.166	0. 0.898
1.2 -0.647	1.2 -1.142	1.2 -0.787	1.2 -0.943	1.2 -1.338	1,2 -0,795	1.2 0.626	1.2 0.630
2.5 -0.879	2.5 -1.241	2.5 -1.227	2.5 -1.223	2.5 -1.414	2.5 -1.091	2.5 0.650	2.5 1.434
5.0 -0.879	5.0 -1.613	5.0 -1.766	5.0 -1.732	5.0 -1.742	5.0 -1.734	5.0 0.626	5.0 0.654
7.5 -0.879	7.5 -1.687	7.5 -1.912	7.5 -0.562	7.5 -2.069	7,5 -1.882	7.5 0.650	7.5 0.630
10.0 -1.549	10.6 -1.514	10.0 -2.059	10.0 -1.935	10.0 -1.968	10.0 -1.808	10.0 -2.330	10.0 -1.880
15.0 -1.626	15.0 -1.736	15.0 -2.010	15.0 -0.486	15.0 -1.893	15.0 -1.734	15.0 -2.281	15.0 -1.880 20.0 -2.026
20.0 -1.755	20.0 -1.736	20.0 -1.961	20.0 -1.859	20.0 -1.893		20.0 -2.378	25.0 -2.099
25.0 -1.729	25.0 -1.786	25.0 -1.986	25.0 -0.613	25.0 -1.968	25.0 -2.030	25.0 -2.451	30.0 -1.953
30.0 -1.729	30.0 -1.811	30.0 -1.986	30.0 -2.088	30.0 -2.019	30.0 -2.006	30.0 -2.354	43.0 -2.075
40.0 -1.650	43.0 -1.786	40.0 -1.937	40.0 -1.986	40.0 -1.994	40.0 -1.932	40.0 -2.354 50.0 -2.257	50.0 -2.075
50.0 -1.549	50.0 -1.637	50.0 0.461	50.0 -1.884	50.0 -1.994	50.0 -1.956 60.0 -1.981	60.0 -2.354	60.0 -2.221
60-0 -1-420	60.0 -1.315	60.0 -1.766	60.0 -1.808	60.0 -1.943 61.5 -0.734	61.5 -0.325	61.5 2.491	61.5 -0.930
61.5 -0.595	61.5 -0.573	61.5 -0.860	61.5 -0.588 62.5 -2.647	62.5 -2.548	62.5 -2.426	62.5 2.540	62.5 -3.220
62.5 -2.116 65.0 -3.095	62.5 -2.826 65.0 -3.816	62.5 -2.867 65.0 -4.164	65.0 -4.249	65.0 -3.833	65.0 -4.206	65.0 -5.358	65.0 -4.828
	70.0 -2.900		70.0 -2.977	70.0 -2.825	70.0 -3.563	70.0 -4.461	70.0 2.433
70.0 -2.245		70.0 -2.720 75.0 -1.570	75.0 -1.732	75.0 -1.742	75.0 -2.228	75.0 0.553	75.0 -3.147
75.0 -1.317	75.0 -1.439	75.6 -1.447	75.6 -1.579	75.6 -1.691	75.6 -2.154	75.6 -2.790	75.6 -2.684
75.6 -1.008 76.3 -1.523	75.6 -1.340 76.3 -1.712	76.3 -1.766	76.3 -1.579	76.3 -1.943	76.3 -2.574	76.3 -3.226	76.3 1.799
77.1 0.333	77.1 -1,712	77.1 -1.203	77.1 0.201	77.1 -1.918	77.1 -2.426	77.1 -3.129	77.1 0.751
78.6 0.842	78.6 0.789	78.6 0.730	78.6 0.684	78.6 0.703	78.6 0.837	78.6 0.771	78.6 2.798
80.0 -0.054	80.0 -1.018	80.0 -1.129	80.0 -1.554	80.0 -1.162	80.0 -1.660	80.0 -1.772	80.0 -2.635
85.0 -0.183	85.0 -0.895	85.0 -1.056		85.0 -0.910	85.0 -1.066	85.0 -0.973	85.0 -1.685
90.0 -0.456	90.0 -0.325	90.0 -0.615	90.0 -0.435	90.0 -0.482	90.0 -0.325	90.0 -0.464	90.0 -0.637
95.0 -0.363	95.0 -0.400	95.0 -0.469	95.0 -0.435	95.0 -0.331	95.0 -0.003	95.0 -0.392	95.0 -0.394
2.5 0.874	2.5 1.012	2.5 0.926	2.5 1.065	2.5 1.055	2,5 0,565	2.5 0.626	2.5 0.630
5.0 1.106	5.0 0.987	5.0 0.951	5.0 1.040	5.0 1.055	5.0 0.565	5.0 0.626	5.0 0.630
7.5 1.003	7.5 0.863	7.5 0.902	7.5 0.938	7.5 0.299	7.5 0.565	7.5 0.626	7.5 0.630
10.0 0.874	10.0 0.789		10.0 0.862	10.0 0.879	10.0 0.565	10.0 0.820	10.0 0.678
15.0 0.693	15.0 0.789	15.0 0.706	15.0 0.582	15.0 0.526	15.0 0.565	15.0 0.723	15.0 0.557
20.0 0.590	20.0 0.665	20.0 0.632	20.0 0.582	20.0 0.526	20.0 0.565	20.0 0.626	20.0 0.410
30.0 0.487	30.0 0.467	30.0 0.608	30.0 0.582	30.0 0.526	30.0 0.590	30.0 0.602	30.0 0.410
50.0 0.487	50.0 0.566	50.0 0.584	50.0 0.607	50.0 0.526	50.0 0.639	50.0 0.432	50.0 0.483
65.0 1.1.2	65.0 0.962	65.0 0.975	65.0 0.709	65.0 1.030	65.0 1.134	65.0 2.758	65.0 0.825
70.0 1.080	70.0 0.987	70.0 0.975	70.0 0.709	70.0 1.005	70.0 1.109	_70.0_1.013	70.0 D.873
76.8 0.364	76.8 0.987	76.8 0.045	76.8 0.735	76.8 1.005	76.8 1.183	76.8 0.989	76.8 0.849
77.1 0.951	77.1 0.937	77.1 0.877	77.1 0.760	77.1 0.904	77.1 1.035	77.1 0.941	77.1 0.703
80.0 1.054	80.0 0.987	80.0 0.951	80.0 0.785	80.0 0.980	80.0 1.134	80.0 0.917	80.0 0.825
85.0 1.028	85.0 0.987	85.0 0.975	85.0 0.811	85.0 1.030	85.0 1.208	85.0 0.965	85.0 0.922
90.0 0.977	90.0 0.937	90.0 0.951	90.0 0.811	90.0 1.005	90.0 1.109	90.0 0.868	90.0 0.898
95.0 0.797	95.0 0.838	95.0 0.853	95.0 0.811	95.0 0.829	95.0 0.985	95.0 0.965	95.0 0.751
TOTAL NORMAL						2.02	2 14
CN = 1,99	2.31	2.16	2,30	2.51	2.67	2.82	2.14

		TA	BLE V-74				
RUN 54, PO	INT 6	0 = 8.06	ALPHA = 1	.2 TCP =	· 0.		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100% CP	100X CP					
0. 0.102	00.678	0. 0.145	00.208	00.817	0. 0.621	0. 0.265	0. 0.710
1.2 -1.304	1.2 -1.953	1.2 -1.363	1.2 -1.569	1.2 -2.013	1.2 -1.501	1.2 0.730	1.2 0.735
2.5 -1.304	2.5 -2.403	2.5 -2.401	2.5 -2.365	2.5 -2.497	2.5 -2.100	2.5 0.706	2.5 1.325
5.0 -1.304	5.C -2.8O3	5.0 -3.068	5.0 -3.058	5.0 -2.777	5.0 -3.249	5.0 0.706	5.0 0.710
7.5 -1.330	7.5 -2.803	7.5 -3.216	7,5 -0,927	7.5 -3.006	7.5 -3.324	7.5 0.706	7.5 0.685
10.0 -2.527	10.0 -2.128	10.0 -3.340	10.0 -3.084	10.0 -2.726	10.0 -3.074	10.0 -3.820	10.0 -3.227
15.0 -2.553	15.0 -2.553	15.0 -3.018	15.0 -0.670	15.0 -2.726	15.0 -2.799	15.0 -3.673	15.0 -3.030
20.0 -2.579	20.0 -2.403	20.0 -2.821	20.0 -2.673	20.0 -2.726	20.0 -3.249	20.0 -3.576	20.0 -3.129
25.0 -2.371	25.0 -2.378	25.0 -2.796	25.0 -0.850	25.0 -2.700	25.0 -2.974	25.0 -3.478	25.0 -3.055
30.0 -2.345	30.0 -2.328	30.0 -2.648	30.0 -2.699	30.0 -2.598	30.0 -2.749	30.0 -3.282	30.0 -2.784
40.0 -1.954	40.0 -2.078	40.0 -2.351	40.0 -2.442	40.0 -2.497	40.0 -2.575	40.0 -3.086	40.0 -2.809
50.0 -1.746	50.0 -1.878	50.0 0.590	50.0 -2.185	50.0 -2.497	50.0 -2.525	50.0 -2.866	50.0 -2.710
60.0 -1.486 61.5 -0.445	60.0 -1.253	60.0 -2.005	60.0 -1.928	60.0 -2.242	60.0 -2.450	60.0 -2.866	60.0 -2.858
62.5 -2.006	61.5 -0.403 62.5 -2.603	61.5 -0.720	61.5 -0.362	61.5 -0.715	61.5 -0.328	61.5 2.492	61.5 -1.209
65.0 -2.8.3	65.0 -3.403	62.5 -2.845 65.0 -3.859	62.5 -2.416	62.5 -2.598	62.5 -2.625	62.5 2.614	62.5 -4.236
70.0 -1.746	70.0 -2.528	70.0 -2.450	65.0 -3.597	65.0 -3.973	65.0 -4.547	65.0 -5.973	65.0 -6.401
75.0 -1.043	75.0 -0.903	75.0 -1.264	70.0 -2.057 75.0 -1.235	70.0 -2.395 75.0 -1.122	70.0 -3.423	70.0 -4.946 75.0 0.706	70.0 2.457
75.6 -0.757	75.6 -1.178	75.6 -1.140	75.6 -1.107	75.6 -1.759	75.0 -1.751 75.6 -2.050	75.6 -2.695	75.0 -4.482 75.6 -3.571
76.3 -1.226	76.3 -1.528	76.3 -1.486	76.3 -1.107	76.3 -1.810	76.3 -2.300	76.3 -3.160	76.3 1.817
77.1 0.492	77.1 -1.453	77.1 -0.943	77.1 0.203	77.1 -1.759	77.1 -2.125	77.1 -3.013	77.1 0.685
78.6 0.831	78.6 1.047	78.6 0.911	78.6 0.665	78.6 0.761	78.6 0.995	78.6 0.853	78.6 2.851
80.0 0.076	80.0 -0.878	80.0 -0.967	80.0 -1.107	80.0 -1.021	80.0 -1.451	80.0 -1.765	80.0 -3.424
85.0 -0.068	85.0 -0.678	85.0 -0.819	85.0 -0.850	85.0 -0.741	85.0 -1.027	85.0 -0.884	85.0 -1.357
90.0 -0.393	90.0 -0.478	90.0 -0.325	90.0 -0.234	90.0 -0.537	90.0 -0.453	90.0 -0.469	90.0 -0.914
95.0 -0.184	95.0 -0.303	95.0 -0.053	95.0 0.023	95.0 -0.435	95.0 -0.078	95.0 -0.444	95.0 -0.840
2.5 0.961	2.5 1.322	2.5 1.010	2.5 0.922	2.5 1.193	2.5 0.621	2.5 0.730	2.5 0.710
5.0 0.961	5.0 1.272	5.0 1.010	5.0 0.973	5.0 1.193	5.0 0.621	5.0 0.730	5.0 0.735
7.5 0.909	7.5 1.222	7.5 0.985	7.5 0.973	7.5 0.430	7.5 0.621	7.5 0.730	7.5 0.735
10.0 0.857	10.0 1.122	10.0 0.936	10.0 0.948	10.0 1.041	10.0 0.621	10.0 1.048	10.0 0.759
15.0 0.857	15.0 1.122	15.0 0.911	15.0 0.742	15.0 0.608	15.0 0.671	15.0 0.926	15.0 0.759
20.0 0.805	20.0 0.997	20.0 0.861	20.0 0.768	20.0 0.633	20.0 0.671	20.0 0.853	20.0 0.587
30.0 0.727	30.0 0.747	30.0 0.812	30.0 0.793	30.0 0.659	30.0 0.671	30.0 0.706	30.0 0.587
50.0 0.649	50.0 0.797	50.0 0.763	50.0 0.768	50.0 0.608	50.0 0.796	50.0 0.608	50.0 0.513
65.0 1.195	65.0 1.272	65.0 1.133	65.0 1.050	65.0 1.168	65.0 1.295	65.0 2.810	65.0 0.636
70.0 1.059	70.0 1.197	70.0 1.109	70.0 0.999	70.0 1.091	70.0 1.270	70.0 0.950	70-0 0-784
76.8 0.544	76.8 1.247	76.8 0.120	76.8 0.948	76.8 1.066	76.8 1.345	76.8 0.730	76.8 0.858
77.1 1.013	77.1 1.197 80.0 1.272	77.1 1.010	77.1 0.870	77.1 0.990	77.1 1.195 80.0 1.295	77.1 0.926 80.0 0.755	77.1 0.636 80.0 0.735
80.0 1.065 85.0 0.987	80.0 1.272 85.0 1.222	80.0 1.109 85.0 1.010	80.0 0.922 85.0 0.973	80.0 1.117 85.0 0.990	80.0 1.295 85.0 1.345	80.0 0.755 85.0 0.730	85.0 0.858
90.0 0.909	90.0 1.047	90.0 0.911	90.0 0.948	90.0 0.862	90.0 1.295	90.0 0.632	90.0 0.808
95.0 0.805	95.0 0.872	95.0 0.812	95.0 0.819	95.0 0.684	95.0 1.170	95.0 1.122	95.0 0.661
TOTAL NORMAL		ABOTE	00027	USU 04	1200 - 201 10	****E	
CN = 2.34	2.78	2.60	2.65	2.93	3.29	3.39	2.82
	_,,,	_,,,,	_,,,,	_4.74			

TABLE V-75

VALVE	=	VALV	· - 2												
130X	ČP	LOOK	CP	VALV	CP		/E 5	VAL		VALV		VAL		VAL	
				700X		100X	CP	100X	CP	100X	CP	100X	CP	100X	CP
	-0.312		-1.145		-0.298	0.	-0.665	0.	-1.089	0.	0.591	.0.	0.239	0.	0.65
	7د8 ۾ 1-		-2.584		-1.794		-2.118	1.2	-2.554	1.2	-2.085	1.2	0.676	1.2	0.65
	-1.888		-3.031	2.5	-2.996		-3.036	2.5	-2.984	2.5	-2.927	2.5	0.627	2.5	1.34
	-1.888	5.0	-3.478	5.0	-3.683	5.0	-3.673	5.0	-3.160	5.0	-4.067	5.0	0.652	5.0	0.65
	-1.9.4	7.5	-3,428	7.5	-3,708	7.5	-1.048	7.5	-3.312	7.5	-3.968	7.5	0.652	7.5	0.63
10.0 -	-2.948	10.0	-2.609	10.0	-3.757	10.0	-3.494	10.0	-3.085	10.0	-3.497	10.0	-4.666	10.0	-3.81
15.0 -		15.0	-3.130	15.0	-3.315	15.0	-0.691	15.0	-3.388	15.0	-3.225	15.0	-4.448	15.0	-3.49
20.0 -	-2.741	20.0	-2.758	20.0	-2,996		-2.806	20.0	-3.337	20.0	-3.497	20.0	-4.156	20.0	-3.52
25.0 -	-2.457		-2.609	25.0	-2.923		-0.869		-3.085		-3.126		-4.011		-3.42
30.0 -	-2.276	30.0	-2.435		-2.628		-2.602		-2.857		-2.804		-3.525		-3.05
40.0 -	-1.8.1		-2.212		-2.211		-2.246		-2.630		-2.531		-3.137		-2.98
50.0			-1.889		0.659		-1.889		-2.504		-2.110		-2.748		-2.83
60.0 -			-1.195		-1.794		-1.634		-2.125		-2.035		-2.699		-2.98
61.5			-0.351		-0.347		-0,207		-0.432		0.096		2.497		-1.39
62.5			-2.287		-1.966		-1.761		-2.302		-1.441		2.594		-4.30
65.0			-3.031		-2.628		-2.653		-3.615		-2.432		-5.419		
70.0			-2.162		-1.647		-1.736				-1.391				-6.52
75.0			-1.195		-0.838		-0.946		-2.630				-4.254		2.43
									-1.468		-0.796	75.0	0.676		-4.57
75.6			-0.872		-0.740		-0.997		-1.443		-1.391		-2.189		-3.76
76.3 -			-1.195		-1.083		-1.022		-1.796		-1.589		-2.627	76.3	1.82
	0.566		-1.319		-0.715		0.227		-1.695		-1.366		-2.505		0.68
	9.741		0.816		0.732		0.685	78.6	0.654		1.037	78.6		78.6	
0.08	0.566		-0.723		-0.715		-0.997	80.0	-1.089	80.0	-0.995	80.0	-1.388		-3.52
85.0			-0.525		-0.568		-0.793		-0.735		-0.920		-0.732		-1.42
90.0 -			-0.202		-0.249	90.0	-0.258		-0.483		-0.623	90.0	-0.198	90.0	-0.85
95.0			-0.003	95.0	-0.077		-0.028		-0.230	95.0	-0.474	95.0	-0.174		-0.78
2.5	0.9 <u>~8</u>		1.312	2.5	0.830	2.5	0.838	2.5	1.210	2.5	0.567	2.5	0.652	2.5	0.60
5.0	0.979	5.0	1.337	5.0	0.904	5.0	0.940	5.0	1.260	5.0	0.591	5.0	0.676	5.0	0.65
7.5	0.979	7.5	1.287	7.5	0.928	7.5	0.966	7.5	0.502	7.5	0.567	7.5	0.676	7.5	0.65
10.0	0.954	10.0	1.213	10.0	0.928	10.0	0.991	40.0	1.159	10.0	0.591	10.0	1.016	10.0	0.70
15.0	0.954	15.0	1.188	15.0	0.928	15.0	0.787	15.0	0.629	15.0	0.616	15.0	0.967	15.0	0.85
20.0	0.902	20.0	1.163	20.0	0.904	20.0	0.838	20.0	0.679	20.0	0.641	20.0	0.943	20.0	0.65
30.0	0.824	30.0	0.840	30.0	0.855	30.0	0.864	30.0	0.831	30.0	0.616	30.0	0.749	30.0	0.68
50.0	0.7.1	50.0	0.916	50.0	0.806	50.0	0.813	50.0	0.730	50.0	0.839	50.0	0.652	50.0	0.58
65.0	1.134	65.0	0.940	65.0	0.953	65.0	0.966	65.0	0.932	65.0	1.236	65.0	2.789	65.0	0.68
70.0	1.005	70.0	0.964	70.0	0.953		0.966	70.0	0.932		1.335	70.0	0.822		0.75
76.8	0.618	76.8	0.964	76.8	0.168	76.8	0.940	76.8	0.906		1.211	76.8	0.749	76.8	0.85
77.1	0.876	77.1	0.940	77.1	0.830	77.1	0.864	77.1	0.831	77.1	1.161	77.1	0.797	77.1	0.60
80.0	0.954	80.0	0.940	80.0	0.904	80.0	0.915	80.0	0.957	80.0	1.236	80.0	0.627	80.0	0.70
85.0	0.954	85.0	0.940	85.0	0.928	85.0	0.966	85.0	0.957	85.0	1.136	85.0	0.725	85.0	0.85
90.0	0.902	90.0	0.915	90.0	0.928	90.0	0.940	90.0	0.881	90.0	1.087	90.0	0.725	90.0	0.82
95.0		95.0	0.840		0.855	95.0		95.0	0.755	95.0	1.013	95.0	0.967	95.0	0.70
	NORMAL														-010
	25	2													

## TABLE V-76

RUN 67, PO	INT 3	0 = 4.04	ALPHA =	0 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 5.632		01.966	01.587	012.320	0. 1.197	0. 0.421	0. 1.413
1.2 -0.331		1.2-10.736	1.2-10.488	1.2-17.164	1.2 -0.861	1.2 1.364	1.2 1.323
2.5 -0.331		2.5-10.252	2.5 -9.482	2.5-13.570	2.5 -1.498	2.5 1.408	2.5 -3.901
5.0 -1.999		5.0 -8.459	5.0 -7.973	5.0 -9.612	5.0 -2.870	5.0 1.319	5.0 1.143
7.5 -1.999	7.5 -5.957	7.5 -7.490	7.5 -2.190	7.5 -8.778	7.5 -2.968	7.5 1.364	7.5 1.052
10.0 -1.949	10.0 -4.977	10.0 -7.199	10.0 -6.515	10.0 -7.060	10.0 -2.919	10.0 -3.485	10.0 -3.090
15.0 -2.050	15.0 -4.585	15.0 -5.891	15.0 -1.235	15.0 -5.862	15.0 -3.115	15.0 -3.261	15.0 -2.730
20.0 -2.504	20.0 -4.585	20.0 -5.261	20.0 -5.107	20.0 -5.549	20.0 -3.507	20.0 -3.171	20.0 -2.685
25.0 -2.454	25.0 -4.781	25.0 -5.358	25.0 -1.788	25.0 -5.758	25.0 -3.997	25.0 -3.126	25.0 -2.595
30.0 -2.555		30.0 -5.213	30.0 -5.409	30.0 -5.966	30.0 -4.389	30.0 -2.991	30.0 -2.505
40.0 -2.353		40.0 -4.825	40.0 -5.057	40.0 -5.914	40.0 -4.536	40.0 -2.991	40.0 -2.505
50.0 -2.403		50.0 1.135	50.0 -5.107	50.0 -6.539	50.0 -5.173	50.0 -2.991	50.0 -2.460
60.0 -2.454		60.0 -4.631	60.0 -5.208	60.0 -6.903	60.0 -5.810	60.0 -3.350	60.0 -2.730
61.5 -2.858		61.5 -2.887	61.5 -1.034	61.5 -4.195	61.5 -1.694	61.5 -2.677	61.5 -1.064
62.5 -6.901		62.5-10.833	62.5 -8.526	62.5-11.122	62.5 -9.093	62.5 -1.779	62.5 -3.901
65.0-12.359		65.0-15.727	65.0-13.505	65.0-16.799	65.0-16.589	65.0 -8.244	65.0 -5.927
70.0 -9.478		70.0-11.851	70.0-10.840	70.0-12.893	70-0-15-119	70.0 -7.167	70.0 -3.720
75.0 -6.042		75.0 -6.763	75.0 -6.766	75.0 -8.570	75.0 -9.925	75.0 1.633	75.0 -4.441
75.6 -5.031		75.6 -6.715	75.6 -6.113	75.6 -9.299	75.6-10.611	75.6 -4.787	75.6 -3.946
76.3 -7.710		76.3 -8.411	76.3 -6.817	76.3-11.018	76.3-12.620	76.3 -5.730	76.3 -3.901
77.1 1.639		77.1 -6.085	77.1 -5.660	77.1-11.279	77.1-12.081	77.1 -5.775	77-1 0-647
78.6 4.823		78.6 4.720	78.6 4.095	78.6 3.774	78.6 3.892	78.6 0.466	78.6 -2.009
80.0 -6.042		80.0 -4.873	80.0 -6.364	80.0 -7.737	80.0 -8.750	80.0 -4.203	80.0 -4.261
85.0 -5.941		85.0 -3.178	85.0 -4.001	85.0 -4.560	85.0 -4.683	85.0 -3.216	85.0 -2.730
90.0 -0.736		90.0 -0.900	90.0 -0.632	90.0 -1.591	90.0 -0.665	90.0 -1.285	90-0 -1-154
95.0 0.477 2.5 2.397		95.0 -0.222 2.5 4.478	95.0 0.274 2.5 2.989	95.0 -0.549 2.5 5.962	95.0 0.854 2.5 1.148	95.0 -0.791 2.5 1.408	95.0 -0.884 2.5 1.188
5.0 1.538		5.0 3.218	5.0 1.983	5.0 4.972	5.0 1.148	5.0 1.319	5.0 1.233
7.5 1.336		7.5 2.394	7.5 1.581	7.5 1.743	7.5 1.148	7.5 1.229	7.5 1.097
10.0 1.235		10.0 1.910	10.0 1.380	10.0 3.618	10.0 1.197	10.0 0.870	10.0 0.692
15.0 1.185		15.0 1.474	15.0 0.776	15.0 1.066	15.0 1.148	15.0 0.780	15.0 0.602
20.0 1.235		20.0 1.135	20.0 0.827	20.0 1.170	20.0 1.148	20.0 0.600	20.0 0.782
30.0 1.235		30.0 0.989	30.0 0.827	30.0 1.118	30.0 1.295	30.0 0.870	30.0 0.512
50.0 1.235		50.0 2.152	50.0 2.184	50.0 1.534	50.0 1.834	50.0 1.004	50.0 0.422
65.0 6.996	65.0 6.341	65.0 5.738	65.0 5.604	65.0 6.326	65.0 5.067	65.0 -1.689	65.0 0.512
70.0 5.834	70.0 6.047	70.0 5.447	70.0 5.202	70.0 5.649	70.0 4.381	70.0 0.959	70.0 0.647
76.8 1.659		76.8 0.166	76.8 5.352	76.8 5.649	76.8 5.704	76.8 0.780	76.8 0.692
77.1 6.188		77.1 5.302	77.1 4.900	77.1 5.232	77.1 4.675	77.1 0.959	77.1 0.467
80.0 6.996		80.0 5.883	80.0 5.503	80.0 6.066	80.0 5.263	80.0 0.780	80.0 0.557
85.0 6.440		85.0 5.399	85.0 4.850	85.0 5.649	85.0 5.655	85.0 0.286	85.0 0.692
90.0 5.379		90.0 4.526	90.0 3.894	90.0 4.607	90.0 5.214	90.0 -0.028	90.0 0.557
95.0 4.419		95.0 3.412	95.0 3.039	95.0 3.774	95.0 4.724	95.0 2.710	95.0 0.467
TCTAL NORMAL							
CN = 5.87	9,47	7.53	8.05	10.14	8.31	3.22	3.15

TABLE V-77

RUN 67, POI	INT 5	Q = 4.10	ALPHA =	8 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 3.906	014.271	010.198	014.546	019.890	0. 0.986	0. 0.370	0. 1.303
1.2 -5.008	1.2-16.926	1.2-16.595	1.2-15.686	1.2-22.559	1.2 -5.580	1.2 1.034	1.2 1.347
2.5 -5.008	2.5-13.112	2.5-14.924	2.5-13.605	2.5-16.965	2.5 -5.484	2.5 1.122	2.5 -3.578
5.0 -4.958	5.0 -9.684	5.0-11.773	5.0-10.929	5.0-12.038	5.0 -6.305	5.0 1.078	5.0 1.125
7.5 -4.958	7.5 -7.801	7.5 -9.816	7.5 -2.753	7.5-10.344	7.5 -5.870	7.5 1.166	7.5 1.081
10.0 -4.261	10.0 -6.594	10.0 -9.004	10.0 -7.808	10.0 -8.188	10.0 -5.146	10.0 -5.470	10.0 -4.421
15.0 -4.211	15.0 -6.160		15.0 -1.515	15.0 -6.957	15.0 -5.049	15.0 -4.762	15.0 -3.755
20.0 -4.311	20.0 -5.870	20.0 -6.187	20.0 -6.123	20-0 -6-700	20.0 -5.098	20.0 -4.452	20.0 -3.489
25.0 -4.062	25.0 -5.629	25.0 -6.139	25.0 -2.010	25.0 -6.649	25.0 -5.435	25.0 -4.408	25.0 -3.311
30.0 -4.111	30.0 -5.629	30.0 -5.757	30.0 -5.925	30.0 -6.700	30.0 -5.629	30.0 -4.231	30.0 -3.090
40.0 -3.663	40.0 -5.339	40.0 -5.137	40.0 -5.231	40.0 -6.546	40.0 -5.484	40.0 -4.010	40.0 -3.045
50.0 -3.663	50.0 -5.242	50.0 0.974	50.0 -5.082	50.0 -7.213	50.0 -5.967	50.0 -3.744	50-0 -3-045
60.0 -3.663	60.0 -4.325	_60.04.707_	60.0 -4.735	60.0 -7.213	60.0 -6.401	60.0 -3.921	60.0 -3.178
61.5 -3.713	61.5 -3.794	61.5 -2.606	61.5 -0.771	61.5 -4.237	61.5 -1.911	61.5 -2.594	61.5 -1.359
62.5 -7.896	62.5-11.277	62.5 -8.527	62.5 -5.726	62.5-11.063	62.5 -9.394	62.5 -1.753	62.5 -4.554
65.0-13.473	65.0-15.526	65.0-11.821	65.0 -8.898	65.0-16.657	65-0-17-698	65.0 -9.407	65.0 -6.950
70.0-10.087	70.0-12.291	70.0 ~8.097	70.0 -6.767	70.0-12.910	70.0-16.154	70.0 -8.433	70.0 -3.356 75.0 -5.264
75.0 -6.502	75.0 -6.739	75.0 ~4.325	75.0 -3.695	75.0 -8.394	75.0-10.601	75.0 1.387	
75.6 -5.506	75.6 -5.822	75.6 -4.898	75.6 -3.447	75.6 -8.804	75.6-11.326	75.6 -6.222	75.6 -4.909
76.3 -7.747	76.3 -7.801	76.3 -6.139	76.3 -4.389	76.3-10.652	76.3-13.546	76.3 -7.239	76.3 -3.533
77.1 0.719	77.1 -7.946	77.1 -4.086	77.1 -5.528	77.1-10.857	77.1-13.064	77.1 -7.283	77.1 0.549
78.6 3.906	78.6 5.138	78.6 4.651	78.6 4.233	78.6 3.718	78.6 4.076 80.0 -9.829	78.6 0.547 80.0 -5.204	78.6 -1.714 80.0 -5.042
80.0 -5.954	80.0 -5.435	80.0 -3.418	80.0 -4.339	80.0 -8.599	85.0 -5.484		85.0 -3.178
85.0 -5.904	85.0 -3.166	85.0 -2.941 90.0 -0.935	85.0 -3.249	85.0 -4.596	90.0 -0.994	85.0 -3.877 90.0 -1.886	90.0 -1.359
90.0 -1.173	90.0 -0.752	95.0 -0.601	90.0 -1.118 95.0 -0.722	90.0 -1.465 95.0 -0.644	95.0 0.503	95.0 -1.223	95.0 -1.537
95.0 -0.576		2.5 2.789	2.5 -0.078	2.5 6.387	2.5 0.986	2.5 1.078	2.5 1.081
2.5 2.561 5.0 1.416	2.5 6.490 5.0 5.669	5.0 2.168	5.0 0.566	5.0 5.823	5.0 0.986	5.0 1.166	5.0 1.170
7.5 1.018	7.5 4.800	7.5 1.882	7.5 0.418	7.5 2.281	7.5 1.034	7.5 1.034	7.5 1.170
10.0 0.470	10.0 4.076	10.0 1.643	10.0 0.665	10.0 4.386	10.0 1.034	10.0 0.635	10.0 0.904
15.0 0.520	15.0 4.076	15.0 1.261	15.0 0.566	15.0 0.998	15.0 1.034	15.0 0.680	15.0 0.859
20.0 0.520	20.0 2.386	20.0 1.118	20.0 0.616	20.0 1.152	20.0 0.937	20.0 0.680	20.0 0.859
30.0 0.370	30.0 1.275	30.0 1.022	30.0 0.913	30.0 1.204	30.0 1.179	30.0 0.812	30.0 0.726
50.0 0.818	50.0 1.710	50.0 1.404	50.0 1.656	50.0 1.152	50.0 1.758	50.0 0.724	50.0 0.549
65.0 6.196	65.0 6.683	65.0 5.844	65.0 4.233	65.0 6.438	65.0 5.717	65.0 -1.665	65.0 0.593
70.0 4.852	70.0 5.331	70.0 4.603	70.0 4.382	70.0 5.515	70.0 5.283	70.0 0.680	70.0 0.682
76.8 0.769	76.8 5.427	76.8 0.258	76.8 4.927	76.8 5.207	76.8 6.152	76.8 0.635	76.8 0.770
77.1 5.300	77.1 5.765	77.1 5.319	77.1 4.530	77.1 5.104	77.1 5.186	77-1 0.857	77.1 0.415
80.0 6.346	80.0 5.958	80.0 5.367	80.0 4.927	80.0 5.874	80.0 5.862	80.0 0.635	80.0 0.504
85.0 5.101	85.0 4.558	85.0 4.126	85.0 4.035	85.0 4.026	85.0 6.200	85.0 -0.117	85.0 0.770
90.0 3.468	90.0 3.689	90.0 2.789	90.0 3.044	90.0 3.205	90.0 5.814	90.0 -0.338	90.0 0.770
95.0 2.362	95.0 2.965	95.0 1.786	95.0 2.053	95.0 2.641	95.0 5.234	95.0 2.582	95.0 0.682
TOTAL NORMAL							
N ≈ 6.38	9,46	7.05	7.08	10.55	9.67	3,94	3.78

TABLE V	-78
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			<del></del>				
RUN 67, PO	INT 6	Q = 4.13	ALPHA = 1	2 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 3.333	017.378	013.679	020.836	024.127	0. 0.978	0. 0.499	0. 1.073
1.2 -7.246	1.2-19.535	1.2-18.655	1.2-16.556	1.2-25.350	1.2 -8.799	1.2 1.114	1.2 1.073
2.5 -7.196	2.5-14.742	2.5-16.475	2.5-13.851	2.5-18.829	2.5 -7.841	2.5 1.114	2.5 -3.596
5.0 -7.097	5.0-11.148	5.0-13.299	5.0-11.637	5.0-13.479	5.0 -8.607	5.0 1.026	5.0 0.941
7.5 -7.097	7.5 -8.751	7.5-10.882	7.5 -2.930	7.5-11.288	7.5 -7.505	7.5 1.114	7.5 1.029
10.0 -5.318	10.0 -7.313	10.0 -9.745	10.0 -8.194	10.0 -9.199	10.0 -6.451	10.0 -7.714	10.0 -5.490
15.0 -5.021	15.0 -6.930	15.0 -7.564	15.0 -1.504	15.0 -8.129	15.0 -5.971	15.0 -6.660	15.0 -4.785
20.0 -5.070	20.0 -6.403	20.0 -6.522	20.0 -6.177	20.0 -7.416	20.0 -5.923	20.0 -5.737	20.0 -4.609
25.0 -4.576	25.0 -6.067	25.0 -6.237	25.0 -1.799	25.0 -7.008	25.0 -5.971	25.0 -4.815	25.0 -4.213
30.0 -4.626	30.0 -5.828	30.0 -5.621	30.0 -5.046	30.0 -6.805	30.0 -6.067	30.0 -4.464	30.0 -4.036
40.0 -3.933	40.0 -5.588		40.0 -4.603	40.0 -6.805	40.0 -5.923	40.0 -4.025	40.0 -3.728
50.0 -3.835	50.0 -4.965	50.0 0.920	50.0 -3.865	50.0 -7.008	50.0 -6.211	50.0 -3.673	50.0 -3.640
60.0 -3.686	60.0 -4.294	60.0 -4.389	60.0 -3.619	60.0 -6.754	60.0 -6.642	60.0 -3.629	60.0 -3.640
61.5 -3.044	61.5 -3.719	61.5 -2.019	61.5 0.562	61.5 -3.136	61.5 -1.897	61.5 -2.444	61.5 -1.438
62.5 -8.284	62.5-10.860	62.5 -6.901	62.5 -3.078	62.5 -9.454	62.5 -9.662	62.5 -1.609	62.5 -5.094
65.0-12.634	65.0-13.496	65.0 -9.034	65.0 -3.570	65.0-14.192	65.0-17.810	65.0 -5.957	65.0 -7.428
70.0 -9.223	70.0 -9.662	70.0 -4.152	70.0 -2.488	70.0 -8.893	70.0-15.988	70.0 -5.825	70.0 -3.420
75.0 -6.158	75.0 -5.636	75.0 -2.540	75.0 -2.291	75.0 -5.582	75.0-10.477	75.0 1.641	75.0 -5.710
75.6 -5.515	75.6 -4.246	75.6 -3.867	75.6 -2.980	75.6 -7.467	75.6-11.915	75.6 -5.386	75.6 -5.138
76.3 -7.344	76.3 -5.636	76.3 -4.863	76.3 -3.521	76.3 -8.639	76.3-13.975	76.3 -5.650	76.3 -3.464
77.1 0.763	77.1 -6.067	77.1 -2.919	77.1 -5.439	77-1 -8-741	77.1-13.352	77.1 -5.210	77.1 0.544
78.6 3.976	78.6 5.100	78.6 4.759	78.6 4.005	78-6 3-538	78.6 4.381	78.6 0.894	78.6 -1.746
80.0 -4.972	80.0 -4.869	80.0 -3.299	80.0 -3.275	80.0 -7.365	80.0 -9.662	80.0 -3.849	80.0 -5.005
85.0 -4.972	85.0 -3.287	85.0 -3.393	85.0 -3.078	85.0 -4.563	85.0 -5.300	85.0 -3.015	85.0 -3.288
90.0 -1.215	90.0 -1.083 95.0 -1.131	90.0 -1.640	90.0 -1.504 95.0 -1.356	90.0 -1.659	90.0 -1.083	90.0 -1.917	90.0 -1.526
95.0 -0.918 2.5 2.987	2.5 6.634	95.0 -1.308 2.5 0.872	2.5 -1.209	95.0 -0.894 2.5 6.290	95.0 0.355 2.5 0.978	95.0 -1.390 2.5 1.070	95.0 -1.217 2.5 1.029
5.0 1.653	5.0 6.059	5.0 1.252	5.0 -0.127	5.0 5.984	5.0 0.978	5.0 1.158	5.0 1.073
7.5 0.911	7.5 5.196	7.5 1.204	7.5 0.316	7.5 2.417	7.5 0.978	7.5 1.158	7.5 1.117
10.0 0.466	10.0 4.525	10.0 1.299	10.0 0.464	10.0 4.608	10.0 1.026	10.0 0.806	10.0 0.809
15.0 0.466	15.0 4.573	15.0 1.157	15.0 0.710	15.0 0.838	15.0 1.026	15.0 0.894	15.0 0.853
20.0 0.516	20.0 2.560	20.0 1.109	20.0 0.759	20.0 1.093	20.0 1.026	20.0 0.894	20.0 0.809
30.0 0.565	30.0 1.410	30.0 1.109	30.0 0.759	30.0 1.195	30.0 1.218	30.0 1.026	30.0 0.677
50.0 0.614	50.0 1.601	50.0 1.346	50.0 1.644	50.0 0.991	50.0 1.793	50.0 0.850	50.0 0.456
65.0 6.349	65.0 6.442	65.0 5.802	65.0 3.809	65.0 6.442	65.0 5.963	65.0 -1.434	65.0 0.544
70.0 4.520	70.0 4.621	70.0 3.953	70.0 3.907	70.0 5.220	70.0 5.579	70.0 0.894	70.0 0.632
76.8 0.763	76.8 5.436	76.8 0.256	76.8 4.792	76.8 4.710	76.8 6.538	76.8 1.026	76.8 0.677
77.1 5.311	77.1 5.627	77.1 5.280	77.1 4.596	77.1 5.067	77.1 5.484	77.1 1.070	77.1 0.456
80.0 6.200	80.0 5.436	80.0 5.233	80.0 5.137	80.0 5.780	80.0 6.250	80.0 1.158	80.0 0.588
85.0 4.470	85.0 3.758	85.0 3.195	85.0 3.661	85.0 3.233	85.0 6.538	85.0 0.367	85.0 0.677
90.0 3.086	90.0 2.991	90.0 2.294	90.0 2.530	90.0 2.519	90.0 5.963	90.0 0.104	90.0 0.677
95.0 1.949	95.0 2.464	95.0 1.346	95.0 1.447		95.0 5.340	95.0 3.134	95.0 0.588
TOTAL NORMAL							
CN = 6.58	9.33	6.59	5.98	10.09	10.24	4.04	4.22

and the second of the second o

			Y-13				
RUN 72+ PC	HNT 3	Q = 4.97	ALPHA =	O TCP	1 1.00		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 2.130	05.932	03.924	0. 1.468	01.038	0. 0.700	0. 0.402	0. 0.797
1.2 -3.130	1.2 -8.413	1.2 -7.819	1.2 -4.076	1.2 -5.606	1.2-10.913	1.2 0.794	1.2 0.797
2.5 -3.130	2.5 -6.531	2.5 -7.311	2.5 -4.164	2.5 -4.903	2.5 -8.128	2.5 0.754	2.5 6.774
5.0 -3.085	5.0 -5.333	5.0 -5.956	5.0 -3.988	5.0 -4.288	5.0 -6.885	5.0 0.754	5.0 0.719
7.5 -3.040	7.5 -4.477	7.5 -5.279	7.5 -1.040	7.5 -4.420	7.5 -5.599	7.5 0.715	7.5 0.680
10.0 -2.815	10.0 -3.151	10.0 -5.067	10.0 -3.768	10.0 -3.937	10-0 -4-442	10.0 -3.961	10.0 -3.056
15.0 -2.860	15.0 -3.536	15.0 -4.220	15.0 -0.644	15.0 -3.586	15.0 -4.057	15.0 -3.550	15.0 -2.741
20-0 -3-040	20.0 -3.365	20-0 -3-881	20.0 -3.372	20-0 -3-586	20.0 -4.571	20.0 -3.511	20.0 -2.820
25.0 -2.950	25.0 -3.451	25.0 -3.881	25.0 -0.996	25.0 -3.761	25.0 -3.799	25.0 -3.472	25.0 -2.780
30.0 -2.995	30.0 -3.579	30.0 -3.881	30.0 -3.900	30.0 -3.937	30.0 -3.714	30.0 -3.315	30.0 -2.663
40.0 -2.770	40.0 -3.579	40-0 -3-712	40.0 -3.856	40.0 -4.025	40.0 -3.671	40.0 -3.237	40.0 -2.741
50.0 -2.770		50.0 0.819	50.0 -3.856	50.0 -4.376	50.0 -3.928	50.0 -3.159	50.0 -2.702
60.0 -2.770		60.0 -3.458	60.0 -3.900	60-0 -4-464	60.0 -4.314	60.0 -3.315	60.0 -2.938
61.5 -2.321		61.5 -2.188	61.5 -1.920	61.5 -2.532	61.5 -0.628	61.5 7.798	61.5 -1.168
62.5 -5.243		62.5 -7.396	62.5 -7.068	62.5 -7.319	62.5 -5.214	62.5 8.933	62.5 -4.353
65.0 -8.525		65.0-10.487	65.0-11.071	65.0-11.623	65.0 -9.199	65.0 -7.776	
70.0 -6.547		70.0 -7.777	70.0 -9.180	70.0 -9.339	70.0 -7.826	70-0 -6-641	65.0 -6.673
75.0 -3.984		75.0 -4.940	75.0 -5.792	75.0 -5.826	75.0 -4.871		70.0 6.931
75.6 -3.175		75.6 -4.347	75.6 -4.912			75.0 1.185	75.0 -4.786
76.3 -4.614		76.3 -5.829		75.6 -5.518	75.6 -5.171	75.6 -4.724	75.6 -4.039
			76.3 -4.912	76.3 -6.572	76-3 -6-157	76.3 -5.350	76.3 7.010
	77.1 -4.905 78.6 2.753	77.1 -4.644	77-1 4-987	77-1 -6-616	77-1 -5-942	77.1 -5.233	77.1 0.797
		76.6 2.343	78.6 2.040	78.6 1.772	78.6 2.286	78.6 1.694	78.6 8.700
80.0 -3.490		80.0 -4.008	80.0 -5.088	80-0 -4-596	80.0 -4.057	80.0 -3.315	80.0 -4.275
85.0 -3.445		85.0 -2.780	85.0 -2.756	85.0 -2.576	85.0 -2.300	85.0 -2.063	85.0 -2.505
90.0 -0.837		90.0 -0.367	90.0 -0.556	90.0 -1.126	90.0 -0.371	90.0 -0.928	90.0 -1.208
95.0 -0.478		95.0 0.184	95.0 -0.512	95.0 -0.907	95.0 0.357	95.0 -0.850	95.0 -0.933
2.5 2.220		2.5 2.682	2.5 2.260	2.5 2.563	2.5 0.657	2.5 0.754	2.5 0.680
5.0 1.590		5.0 2.301	5.0 1.644	5.0 1.904	5.0 0.657	5.0 0.715	5.0 0.680
7.5 1.231	7.5 2.496	7.5 1.962	7.5 1.336	7.5 0.455	7.5 0.657	7.5 0.754	7.5 0.719
10.0 1.006		10.0 1.708	10.0 1.160	10.0 1.289	10.0 0.657	10.0 1.028	10.0 0.876
15.0 0.871	15.0 2.196	15.0 1.369	15.0 0.764	15.0 0.367	15.0 0.786	15.0 0.950	15.0 0.758
20.0 0.781	20.0 1.640	20.0 1.200	20.0 0.764	20.0 0.367	20.0 0.915	20.0 0.872	20.0 0.719
30.0 0.646	30.0 0.827	30.0 1.030	30.0 0.764	30.0 0.367	30.0 0.786	30.0 0.794	30.0 0.562
50.0 0.781	50.0 1.384	50.0 1.242	50.0 1.116	50.0 0.507	50.0 1.643	50.0 0.754	50.0 0.562
65.0 3.433	65.0 3.394	65.0 3.020	65.0 2.920	65.0 3.046	65.0 3.100	65.0 8.855	65.0 0.680
70.0 2.939	70.0 3.352	70.0 2.978	70.0 2.568	70.0 2.783	70.0 2.843	70.0 1.459	70.0 0.797
76.8 0.691	76.8 3.394	76.8 0.353	76.8 2.832	76.8 2.914	76.8 3.272	76.8 1.185	76.8 0.837
77-1 2-894	77.1 3.223	77.1 2.682	77.1 2.568	77.1 2.519	77.1 2.800	77.1 1.694	77.1 0.601
80.0 3.254	80.0 3.437	80.0 3.063		80-0 2-914	60.0 3.143	80.0 1.067	80.0 0.758
85.0 3.254		85.0 2.978	85.0 2.656	85.0 3.046	85.0 3.229	85.0 1.107	85.0 0.915
90.0 2.759	90.0 3.309	90.0 2.639	90.0 2.128	90.0 2.739	90.0 2.972	90.0 1.185	90.0 0.837
95.0 2.130	95.0 3.009	95.0 2.174	95.0 1.512	95.0 2.343	95.0 2.715	95.0 1.381	95.0 0.680
TOTAL NORMAL							
CN = 4.51	6.01	5.27	5.32	5.91	6.10	4.69	2,52
			-,				_,

			ABLE V-80				
RUN 72, POI	NT 5	Q = 4.85	ALPHA =	8 TCP *	1.00		
VALVE 1	VALVE 3	VALVE 4	VALNE 5	VALVE 6	VALVE 7	VALVE 6	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
00.028	013.575	011.049	02.553	06.959	0. 0.587	0. 0.333	0. 0.69
1.2 -7.030	1.2-13.531	1.2-13.306	1.2 -9.045	1.2-11.190	1.2-17.463	1.2 0.694	1.2 0.73
2.5 -6.800	2.5 -9.804	2.5-11.483	2.5 -8.144	2.5 -9.119	2.5-12.237	2.5 0.653	2.5 6.94
5.0 -6.478	5.0 -7.262	5.0 -8.836	5.0 ~6.926	5.0 -7.139	5.0 -9.909	5.0 0.653	5.0 0.69
7.5 -6.201 10.0 -4.727	7.5 -6.122 10.0 -4.763	7.5 -7.491 10.0 -6.884	7.5 -1.787 10.0 -5.709	7.5 -6.869 10.0 -5.744	7.5 -7.757 10.0 -6.089	7.5 0.613 10.0 -5.762	7.5 0.61 10.0 -4.46
15.0 -4.359	15.0 -4.807	15.0 -5.495	15.0 -1.020	15.0 -4.934	15.0 -5.430	15.0 -5.001	15.0 -3.85
20.0 -4.220		20.0 -4.758	20.0 -4.582	20.0 -4.664	20.0 -5.166	20.0 -4.600	20.0 -3.65
25.0 -3.944	25.0 -4.237	25.0 -4.628	25.0 -1.426	25.0 -4.709	25.0 -4.903	25.0 -4.359	25.0 -3.49
30.0 -3.852	30-0 -4-061	30.0 -4.280	30-0 -4-762	30-0 -4-754	30-0 -4-639	30.0 -4.118	30.0 -3.25
40.0 -3.345	40.0 -3.711	40.0 -3.760	40.0 -4.356	40.0 -4.619	40-0 -4-420	40.0 -3.838	40.0 -3.21
50.0 -3.161	50-0 -3-404	50.0 0.840	50.0 -4.311	50.0 -4.799	50.0 -4.552	50.0 -3.677	50.0 -3.13
60.0 -2.792	60.0 -3.842	60.0 -3.413	60.0 -4.131	60.0 -4.664	60.0 -4.683	60.0 -3.757	60.0 -3.29
61.5 -2.193	61.5 -1.037	61.5 -1.981	61.5 -1.967	61.5 -2.774	61.5 -0.599	61.5 7.871	61.5 -1.47
62.5 -2.884	62.5 -5.771	62.5 -5.886	62.5 -6.746	62.5 -7.454	62.5 -5.166	62.5 9.074	62.5 -4.78
65.0 -6.339	65.0 -6.429	65.0 -8.272	45.0-10.849	65.0-12.180	65.0 -9.602	65.0 -7.687	65.0 -7.03
70.0 -3.990	70.0 -6.166	70.0 -6.276	70.0 -8.820	70.0 -9.389	70.0 -8.197	70.0 -6.564	70.0 7.06
75.0 -2.147	75.0 -2.045	75.0 -3.413	75.0 -5.078	75.0 -6.104	75.0 -5.298	75.0 1.415	75.0 -5.02
75.6 -2.147 76.3 -2.930	75.6 -2.922 76.3 -3.404	75.6 -3.456	75.6 -4.221	75.6 -5.834	75.6 -5.518	75.6 -5.041	75.6 -4.50
77.1 0.709	77.1 -3.448	76.3 -4.324 77.1 -3.239	76.3 -4.176 77.1 5.021	76.3 -6.869	76.3 -6.616	76.3 -5.803	76.3 7.22
78.6 2.690	78.6 2.997	78.6 2.575	78.6 2.181	77-1 -6-779	77.1 -6.308	77.1 -5.762	77.1 0.69
80.0 1.440	80-0 -1-826	60.0 -3.152	80.0 -3.951	80.0 -4.619	80.0 -4.420	78.6 1.455 80.0 -3.878	78.6 8.87
85.0 1.123	85.0 -1.650	85.0 -2.328	85.0 -2.102	85.0 -2.684	85.0 -2.531	85-0 -2-715	85.0 -2.84
90.0 -1.088	90-0 -0-861	90.0 -0.636	90.0 -0.750	90.0 -1.288	90-0 -0-511	90.0 -1.151	90.0 -1.31
95.0 -C.811	95.0 -0.686	95.0 -0.158	95.0 -0.344	95.0 -0.928	95.0 0.235	95.0 ~0.590	95.0 -1.19
2.5 2.598	2.5 3.611	2.5 1.707	2.5 1.279	2.5 3.527	2.5 0.587	2.5 0.653	2.5 0.65
5.0 1.768	5.0 3.567	5.0 1.664	5.0 1.144	5.0 2.852	5.0 0.587	5.0 0.573	5.0 0.61
7.5 1.354	7.5 3.216	7.5 1.534	7.5 1.099	7.5 0.872	7.5 0.587	7.5 0.613	7.5 0.65
10.0 1.077	10.0 2.865	10.0 1.360	10.0 1.099	10.0 1.997	10.0 0.587	10.0 0.934	10.0 0.97
15.0 0.939	15.0 2.865	15.0 1.274	15.0 0.783	15.0 0.422	15.0 0.718	15.0 0.974	15.0 0.89
20.0 0.893	20.0 2.690	20.0 1.187	20.0 0.783	20.0 0.467	20.0 0.850	20.0 0.974	20.0 0.77
0.0 0.709	30.0 0.980	30.0 0.970	30.0 0.738	30.0 0.467	30.0 0.718	30.0 0.814	30.0 0.65
0.0 0.847	50.0 1.375	50.0 1.057	50.0 0.828	50.0 0.467	50.0 1.728	50.0 0.694	50.0 0.53
55.0 3.888 70.0 2.920	65.0 3.654 70.0 3.304	65.0 3.313	65.0 3.083	65.0 3.572	65.0 3.353	65.0 8.914	65.0 0.61
76.8 0.709	70.0 3.304	70.0 2.792	70.0 2.316	70.0 3.212	70.0 3.134	70.0 1.054	70.0 0.73
77.1 3.104	77-1 3-435	76.8 0.319 77.1 2.922	76.8 2.722 77.1 2.677	76.8 3.212 77.1 2.897	76.8 3.485 77.1 3.002	76.8 1.295	76.8 0.81
BC-0 3-104	80.0 3.611	80.0 3.269	80.0 2.812	80.0 3.347	80.0 3.265	77.1 1.536 80.0 1.135	77.1 0.57 60.0 0.65
5.0 2.920	85.0 3.347	85.0 2.445	85.0 2.226	85.0 3.347	85.0 3.485	85.0 0.653	85.0 0.81
90.0 2.091	90.0 2.778	90.0 1.794	90.0 1.550	90.0 2.942	90.0 3.222	90.0 0.573	90.0 0.77
95.0 1.492	95.0 1.945	95.0 1.317	95.0 1.189	95.0 2.357	95.0 3.046	95.0 1.455	95.0 0.65
	CORFFICIENT		20207	20221	30010	PG-122	0003
4.44	6.21	5.22	5.57	6.85	7.03	5-16	2.92

N 72. PUENT 6			1 = 12 TCP		VALVE 8	VALVE 9	
ALVE 1 VALV				100X CP	100X CP	100X CP	
		15.886 O8		0. 0.579	0. 0.408	0. 0.728	
		14.729 1.2-11			1.2 0.685	1.2 0.688	
2.5 -8.356 2.5		L2.972 2.5 -9			2.5 0.685	2.5 6.897	
		-9.672 5.0 -8			5.0 0.764	5.0 0.728 7.5 0.688	
-5 -5.944 7.5	-6.481 7.5 -4.878 10.0	- <u>8.172 7.5 -2</u> -7.314 10.0 -6	.032 7.5 ~8.030		7.5 0.724 10.0 -6.326	10.0 -4.923	
0.0 -4.670 10.0	-5 308 15 A		142 15.0 -5.67			15.0 -4.287	
		-4.914 20.0 -4		20-0 -5-407		20.0 -3.928	
0-3-760 25-0	-4-272 25.0	-4.743 25.0 -1	.542 25.0 ~5.18	25.0 -5.104	25.0 -4.623	25.0 -3.729	
0.0 -3.669 30.0	-4.229 30.0	-4.314 30.0 -4	927 30.0 ~5.14	30.0 -4.757	30.0 -4.306	30.0 -3.411	
7.0 -3.032 40.0	-3.752 40.0	-3.757 40.0 -4	482 40.0 -4.87	40.0 -4.583	40.0 -3.910	40.0 -3.292	
0.0 -2.622 50.0	-3.189 50.0	0.743 50.0 -4		50.0 -4.583			
-0 -2.394 60.0						61.5 -1.461	
.5 -1.757 61.5 2.5 -3.987 62.5	-1.919 Olea	<del>-1.743 61.5 -1</del> -4.871 62.5 -6	721 61.5 -2.47	62.5 -5.624	62.5 9.003	62-5 -6-726	
5.0 -6.535 65.0	-7-056 0E-5	C-20 EAR A-		65.0-10.179		65.0 -7.073	
0.0 -3.942 70.0	-0.981 70.0	-4.100 70.0 -7	777 70.0 -9.45	70.0 -8.227		70.0 6.937	
	-2.107 75.0	-2.771 75.0 -4	.259 75.0 -5.80	75.0 -5.234	75.0 1.279	75.0 -5,162	
5.6 -2.167 75.6	-2.367 75.6	-2.728 75.6 -3	.725 75.6 -5.80	7 75.6 -5.451		75.6 -4.446	
6.3 -2.576 76.3	-2.410 76.3	-3.328 76.3 -3	.636 76.3 -6.07	16.3 -6.231		76.3 7.096	
7.1 0.700 77.1	-2.626 77.1	-2.514 77.1 4	960 77.1 -6.38	77.1 -6.101	77.1 -4.623	77.1 0.648	
8.6 2.702 78.6	2.960 78.6	2.586 78.6 2		78.6 2.488	80.0 -3.157	78.6 8.767 80.0 -4.366	
0.0 0.154 80.0	-1.587 80.0	-2.214 80.0 -3	.324 80.0 -4.25 .721 85.0 -2.38	2 80.0 -4.323 4 85.0 -2.718	85-0 -2-286	85.0 -2.536	
0.0 -0.711 90.0	-0-548 90-0	-0.671 90.0 -0	-607 90-0 -1-31	7 90.0 -0.636		90.0 -1.262	
		-0.243 95.0 -0				95.0 -1.302	
	3.566 2.5	-0.843 2.5 -0	.162 2.5 3.61	7 2.5 0.579	2.5 0.724	2.5 0.648	
5.0 1.155 5.0	3.696 5.0	0.272 5.0 0			5.0 0.685	5.0 0.688	
	3.393 7.5	0.743 7.5 0	<b>.</b> 862 7 <b>.</b> 5 0 <b>.</b> 90		7.5 0.685	7.5 0.728	
0.0 0.927 10.0	3.003 10.0	0.915 10.0 0	907 10.0 2.10	10.0 0.579 2 15.0 0.753	10.0 0.863 15.0 0.962	10.0 0.967 15.0 0.887	
5.0 0.882 15.0 0.0 0.836 20.0			.729 15.0 0.37 .729 20.0 0.41		20.0 0.962	20.0 0.728	
	1.054 30.0		773 30.0 0.41			30.0 0.688	
0.0 0.927 50.0		0.958 50.0 0			50.0 0.804	50.0 0.569	
5.0 3.840 65.0	3.703 65.0	3.186 65.0 2	.644 65.0 3.52	8 65.0 3.355	65.0 8.844	65.0 0.529	
0.0 2.748 70.0	2.830 70.6	2.286 70.0 1	976 70.0 3.08	4 70.0 3.312			
	3.133 76.8	0.315 76.8 2	.599 76.8 3.08		76-8 0-962	76.8 0.808	
7.1 3.112 77.1	3.176 77.1	2.801 77.1 2				77.1 0.489	
U.U J.UOG 80.0	3-040 60-0	2-178 80-0 2	.024 00e0 3e30	9 9000 30399 3 85-0 3-339			
0-0 1-792 00-0	1.747 90.0	1.429 90.0 1	-352 9D-D 2-63	9 90.0 2.748		90.0 0.768	
	1.228 95-0	1.086 95.0	.041 95.0 1.83		95.0 1.517	95.0 0.609	
TAL NORMAL COEFF	ICIENT						
4.34	5.76 4	.75 5.3	4 7.03	7.23	5.10	3.02	
0.0 3.066 80.0 5.0 2.520 85.0 0.0 1.792 90.0 5.0 1.246 95.0 TAL NORMAL COBFF	3.090 80.0 2.267 85.0 1.747 90.0 1.228 95.0 ICIENT	2.758 80.0 2 1.901 85.0 1 1.429 90.0 1 1.086 95.0 1	.822 80.0 3.30 .976 85.0 3.17 .352 90.0 2.63 .041 95.0 1.83	6 60.0 3.399 3 85.0 3.225 9 90.0 2.748 9 95.0 2.314	80.0 0.962 85.0 0.487 90.0 0.328 95.0 1.517	80.0 0.609 85.0 0.768 90.0 0.768	

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RUN 71. POT	N7 3		BLE V-82	TCP 4	Z. 40		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	WALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	3.00X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
O. 5.530	06.562	00.901	0. 5.625	0. 3.379	0. 1.063	0. 0.494	0. 1.116
1.2 -0.682	1.2-11.489	1.2 -9.421	1.2 -1.575	1.2 -3.861	1.2-15.613	1.2 1.158	1.2 1.020
2.5 -1.772	2.5 -8.741	2.5 -9.113	2.5 -2.482	2.5 -4.074	2.5-11.873	2.5 1.205	2.5 7.455
5.0 -3.243	5.0 -7.029	5.0 -7.522	5.0 -3.388	5.0 -3.861		5.0 1.158	5.0 0.973
7.5 -3.189	7.5 -5.834	7.5 -6.752	7.5 -0.988	7.5 -4.553	7.5 -8.132	7.5 1.205	7.5 0.973
10.0 -3.134	10.0 -4.073	10.0 -6.598	10.0 -4.082	10.0 -4.234	10.0 -6.262	10.0 -4.582	10.0 -3.507
15.0 -3.134	15.0 -4.592	15.0 -5.418	15.0 -0.828	15.0 -4.074	15.0 -5.535	15.0 -4.013	15.0 -3.222
20.0 -3.134	20-0 -4-364	20-0 -4-904	20-0 -4-028	20.0 -4.181	20-0 -5-898	20.0 -3.965	20.0 -3.222
25.0 -3.625	25.0 -4.747	25.0 -5.058	25.0 -1.308	25.0 -4.660	25.0 -5.431	25.0 -3.918	25.0 -3.222 30.0 -3.031
30.0 -3.843	30.0 -4.903	30.0 -4.956	30.0 -4.988	30.0 -5.086	30.0 -5.067	30.0 -3.728 40.0 -3.776	40.0 -3.126
40.0 -3.570	40-0 -4-799	40.0 -4.802 50.0 1.204	40.0 -4.988 50.0 -5.148	40.0 -5.352	40.0 -5.171 50.0 -5.483	50.0 -3.633	50.0 -3.126
50.0 -3.734	50.0 -4.747		60.0 -5.362	50.0 -6.097 60.0 -6.257	60.0 -6.002	60.0 -3.776	60.0 -3.317
60.0 -3.843 61.5 -3.734	60.0 -3.970	60.0 -4.699 61.5 -3.108	61.5 -2.962	61.5 -4.341	61.5 -0.652	61.5 8.890	61.5 -1.410
62.5 -8.420	62.5-10.037	62-5-11-064	62.5-10.748	62.5-11.262	62.5 -7.561	62.5 10.123	62.5 -5.033
65.0-13.979	65.0-15.430	65-0-16-196	65.0-17.735	65.0-17.597	65-0-13-951	65.0 -8.899	65.0 -7.463
70.0-10.982	70-0-12-163	70.0-12.295	70.0-15.015	70.0-14.775	70.0-11.821	70.0 -7.997	70.0 7.788
75.0 -7.222	75.0 -7.755	75.0 -7.861	75.0 -9.362	75.0 -9.931	75.0 -7.561	75.0 2.059	75.0 -5.652
75-6 -6-186	75.6 -5.992	75.6 -7.522	75.6 -8.668	75.6 -9.771	75.6 -8.236	75.6 -5.958	75.6 -5.271
76-3 -8-638	76.3 -8.118	76.3-10.294	76-3 -8-722	76.3-11.475	76.3 -9.950	76.3 -7.381	76.3 7.788
77.1 0.680	77.1 -9.155	77.1 -8.343	77-1 5-445	77.1-12.007	77.1 -9.587	77.1 -7.665	77-1 0-687
78.6 3.950	78.6 4.950	78.6 4.386	78-6 3-918	78.6 3.166	78.6 4.284	78.6 2.106	78.6 9.885
60-0 -6-786	80.0 -5.836	80.0 -7.573	80-0 -8-935	80.0 -8.546	80.0 -6.782	80-0 -5-483	80.0 -5.843
85.0 -6.677	85.0 -3.347	85.0 -5.418	85.0 -5.522		85.0 -3.924	85.0 -4.108	85.0 -4.318
90.0 -1.391	90.0 -0.806	90.0 -1.106	90.0 -1.042	90.0 -1.625	90.0 -0.444	90.0 -1.499	90.0 -1.792
95.0 -0.410	95.0 -0.391	95.0 0.228	95-0 -0-562	95.0 -0.720	95.0 0.855	95.0 -0.597	95.0 -1.315
2.5 0.898	2.5 5.780	2.5 4.437	2.5 2.158	2.5 3.113	2.5 1.063	2.5 1.158	2.5 1.068
5.0 0.898	5.0 4.743	5.0 3.205	5.0 1.252	5.0 1.868	5.0 1.011	5.0 1.110	5.0 1.116
7.5 0.844	7.5 3.913	7.5 2.436	7.5 1.038	7.5 0.291	7.5 1.063	7.5 1.347	7.5 1.259
10.0 0.735	10.0 3.343	10.0 2.025	10.0 C.825	10.0 1.196	10.0 1.115	10.0 1.110	10.0 0.877
15.0 0.517	15.0 3.343	15.0 1.460	15.0 0.505	15.0 0.504	15.0 1.167	15.0 1.015	15.0 0.782
20.0 0.462	20.0 3.239	20.0 1.152	20.0 0.452	20.0 0.398	20.0 1.271	20.0 0.921	20.0 0.830
30.6 0.353	30.0 1.260	30.0 0.998	30.0 0.558	30.0 0.238	30.0 1.219	30.0 0.921	30.0 0.544
50.0 0.353	50.0 2.202	50.0 2.076	50.0 1.785	50.0 0.877	50.0 2.725	50.0 0.921	50.0 0.496
85.0 5.966	65.0 6.143	65.0 5.669	65.0 5.678	65.0 4.710	65.0 5.686	65.0 10.170	65.0 0.544
70.0 4.931	70.0 6.039	70.0 5.413	70.0 5.252	70.0 4.976	70.0 5.426	70.0 1.964	70.0 0.639
76.8 0.680	76.8 6.195	76.8 0.228	76.8 5.518	76.8 5.136	76.8 6.050	76.8 1.869	76.8 0.734
77-1 5-312	77-1 5-728	77.1 5.156	77-1 4-985	77-1 4-444	77.1 5.167	77.1 2.676	77-1 0-401
80.0 6.021	80.0 6.195	80.0 5.823	80.0 5.945	80.0 5.136	80.0 5.686	80.0 1.679	80.0 0.544 85.0 0.782
85.0 5.639	85.0 6.247	85.0 5.361	85.0 5.252	85.0 5.509	85.0 5.998	85.0 1.395	
90.0 4.658	90.0 5.884	90.0 4.540	90.0 4.185		90.0 5.426	90.0 1.774 95.0 1.869	90-0 0-734 95-0 0-687
95.0 3.732	95.0 5.318	95.0 3.513	95.0 3.172	95.0 4.284	95.0 4.803	95.0 1.869	-Jeu Ve001
TOTAL NORMAL B = 6.15	9.25	7.71	7.87	8.49	9.39	5.61	2.91
1							

		TA	BLE V-83				
RUN 71. PO	INT 5	Q = 4±04	ALPHA =	8 TCP =	2.40		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 4.949	014.238	09.040	0. 4.464	00.082	0. 0.763	0. 0.598	0. 0.891
1.2 -5.116	1.2-17.606	1.2-14.770	1.2 -6.469	1.2 -9.699	1.2-21.907	1.2 1.031	1.2 0.939
2.5 -5.171	2.5-12.712	2.5-13.155	2.5 -6.686	2.5 -8.403	2.5-16.213	2.5 0.886	2.5 7.614
5.0 -5.559	5.0-10.028	5.0-10.759	5.0 -7.064	5.0 -7.322	5.0-13.736	5.0 0.886	5.0 0.794
7.5 -5.503	7.5 -8.186	7.5 -9.248	7.5 -1.923	7.5 -7.754	7.5-10.941	7.5 0.983	7.5 0.794
10-0 -4-840	10.0 -5.817	10.0 -8.727	10.0 -6.740	10-0 -6-836	10.0 -8.358	10.0 -6.816	10.0 -5.349
15.0 -4.784	15.0 -6.344 20.0 -5.923	15.0 -6.904	15.0 -1.165	15.0 -5.971	15.0 -7.251	15.0 -5.949	15.0 -4.672
25.0 -4.729	25.0 -5.817	25.0 -5.966	20.0 -5.549 25.0 -1.814	20.0 -5.701 25.0 -5.971	20.0 -7.515	20.0 -5.324	20.0 -4.381 25.0 -3.994
30-0 -4-729	30.0 -5.607	30.0 -5.706	30.0 -6.253	30-0 -6-296	25.0 -6.513 30.0 -6.407	25.0 -5.083 30.0 -4.842	30.0 -3.849
40-0 -4-729	40.0 -5.133	40.0 -4.925	40.0 -5.928	40.0 -6.242	40.0 -6.249	40.0 -4.409	40.0 -3.656
50-0 -3-678	50.0 -4.923	50.0 1.014	50-0 -5-874	50.0 -6.944	50.0 -6.566	50.0 -4.409	50-0 -3-608
60-0 -3-678	60.0 -5.081	60.0 -4.612	60.0 -5.928	60.0 -7.052	60.0 -6.935	60.0 -4.650	60.0 -3.994
61.5 -3.734	61.5 -2.554	61.5 -3.049	61.5 -2.897	61.5 -4.837	61.5 -1.135	61.5 9.118	61.5 -1.915
62.5 -4.453	62.5 -8.607	62.5 -8.310	62-5-10-745	62-5-12-023	62.5 -8.147	62.5 10.226	62.5 -5.784
65.0-11.366	65-0-11-554	65.0-11.748	65.0-17.890	65.0-19.533	65-0-15-528	65.0 -9.656	65.0 -8.348
70.0 -6.997	70.0 -9.186	70.0 -9.561	70-0-15-346	70.0-16.669	70.0-13.525	70.0 -8.597	70.0 7.904
75.0 -5.337	75.0 -5.502	75.0 -6.435	75.0 -9.554	75-0-11-050	75.0 -8.674	75.0 1.272	75.0 -6.606
75.6 -5.780	75.6 -5.396	75-6 -6-852	75-6 -8-634	75-6-11-536	75.6 -9.940	75.6 -7.153	75.6 -6.123
76.3 -7.715	76.3 -6.975	76.3 -9.040	76.3 -8.580	76.3-13.481	76.3-11.679	76.3 -8.405	76.3 8.001
77.1 0.746	77-1 -7-870	77-1 -7-060	77-1 5-493	77.1-13.806	77-1-11-310	77.1 -8.597	77.1 0.649
78.6 4.341	78.6 5.340	78.6 4.660	78.6 3.815	78.6 3.322	78.6 4.400	78.6 2.090	78.6 10.129
60.0 -5.061	80.0 -3.607	80.0 -6.383	80.0 -8.688	80.0 -9.862	60.0 -8.094	80.0 -6.046	80.0 -6.510
85.0 -4.895	85.0 -3.291	85.0 -4.873	85.0 -4.954	85.0 -5.701	85.0 -4.931	85.0 -4.505	85.0 -4.478
90.0 -1.134	90.0 -1.607	90.0 -1.278	90.0 -1.273	90.0 -1.973	90.0 -0.977	90.0 -2.002	90-0 -2-156
95.0 -0.913	95.0 -1.081	95.0 -0.289	95.0 -1.002	95.0 -1.109	95.0 0.499	95.0 -1.232	95.0 -1.818
2.5 2.350	2.5 6.656	2.5 2.576	2.5 2.570	2.5 4.942	2.5 0.763	2.5 1.031	2.5 D.842
5.0 1.520	3.0 5.814 7.5 4.866	5.0 2.264 7.5 1.951	5.0 1.541	5.0 3.322	5.0 0.710	5.0 0.983	5.0 0.842 7.5 1.036
7.5 1.023 10.0 0.691	7.5 4.866 10.0 4.235	7.5 1.951 10.0 1.795	7.5 1.217 10.0 0.946	7.5 0.944 10.0 2.167	7.5 0.710 10.0 0.763	7.5 1.031 10.0 0.886	
15.0 0.525	15.0 4.235	15.0 1.430	15.0 0.892	10.0 2.167 15.0 0.350	10.0 0.763 15.0 0.868	10.0 0.886 15.0 0.983	10.0 0.939 15.0 0.842
20.0 0.580	20.0 4.077	20.0 1.222	20.0 0.730	20.0 0.404	20.0 1.079	20.0 0.983	20.0 0.891
30-0 0-414	30.0 1.288	30.0 1.014	30.0 0.621	30.0 0.188	30.0 0.868	30.0 0.983	30.0 0.649
50.0 0.967	50.0 1.761	50.0 1.430	50.0 1.271	50.0 0.728	50.0 2.608	50.0 0.935	50-0 0-455
65.0 6.498	65.0 6.708	65.0 5.910	65.0 A.518	65.0 6.023	65.0 5.982	65.0 10.274	65.0 0.504
70.0 5.004	70.0 5.708	70.0 4.920	70.0 4.356	70.0 5.699	70.0 5.929	70.0 1.464	70.0 0.649
76.8 0.746	76-8 6-077	76.8 0.389	76.8 5.168	76.8 5.699	76.8 6.351	76.8 1.994	76.8 0.697
77-1 5-834	77.1 5.972	77-1 5-337	77-1 4-897	77.1 4.888	77-1 5-402	77.1 2.090	77.1 0.310
80.0 6.774	80.0 6.550	80.0 5.962	80.0 5.871	80.0 6.023	80.0 6.140	80-0 1-994	80.0 0.552
85.0 5.170	85.0 5.340	85.0 4.452	85.0 4.518	85.0 6.131	85.0 6.193	85.0 0.790	85.0 0.746
90-0 3-622	90.0 4.393	90.0 3.097	90.0 3.165	90.0 5.537	90.0 5.666	90.0 0.742	90.0 0.649
95.0 2.295	95.0 2.919	95.0 2.160	95.0 2.191	95.0 4.456	95.0 4.875	95.0 1.897	95.0 0.504
TOTAL NORMAL N = 6.29	9.41	7.42	8.34	10-24	10.74	6.43	3.51

		TA	BLE V-84				
RUN 71. POIN	7 6	Q = 4.10	ALPHA = 1	2 TCP a	2.40	<del></del>	
VALVE 1 100X CP	VALVE 3	VALVE 4	VALNE 5	WALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP 0. 4.004	100X CP	100X CP G14.554	100X CP	100X CP	100X CP	100x CP	100X CP_
1.2 -7.113	1.2-19.579	1-2-16-812	0. 2.638 1.2 -8.935	03.116 1.2-12.593	0. 0.855	0. 0.541	0. 1.116
2.5 -7.058	2.5-14.549	2.5-15.170	2.5 -8.882	2.5-10.623	2.5-10.938	1.2 0.968	1.2 0.925
5.0 -7.004	5.0-10.348	5.0-11.320	5.0 -8.188	5.0 ~8.600	5-0-14-886	2.5 0.921 5.0 1.110	2.5 7.598 5.0 1.068
7.5 -6.840	7.5 -8.274	7.5 -9.575	7.5 -2.162	7-5 -8-653	7-5-11-561	7-5 1-063	7.5 0.973
	10.0 -5.765	10.0 -8.857	10.0 -7.388	10.0 -7.428	10-0 -8-808	10-0 -7-238	10-0 -5-843
	15.0 -6.562	15.0 -6.957	15.0 -1.362	15.0 -6.310	15.0 -7.821	15.0 -6.574	15.0 -5.080
	20-0 -6-044	20.0 -6.034	20.0 -5.948	20-0 -5-991	20.0 -7.509	20.0 -6.717	20-0 -4-842
25.0 -5.641	25.0 -5.765	25.0 -6.034	25.0 -2.002	25.0 -6.257	25.0 -6.782	25.0 -5.958	25.0 -4.651
30-0 -5-641	30.0 -5.661	30.0 -5.623	30-0 -6-535	30-0 -6-364	30.0 -6.574	30.0 -6.669	30-0 -4-079
40.0 -5.260	40.0 -5.059	40.0 -4.904	40.0 -6.108	40.0 -6.257	40-0 -6-262	40.0 -4.629	40.0 -3.841
	50.0 -4.177	50.0 1.101	50.0 -5.788	50.0 -6.630	50.0 -6.262	50.0 -3.538	50.0 -3.698
	60.0 -3.866	60.0 -4.134	60.0 -5.682	60.0 -6.523	60.0 -6.314	60-0 -3-206	60.0 -3.698
	61.5 -2.414	61.5 -2.441	61.5 -2.855	61.5 -4.394	61.5 -0.652	61.5 8.795	61.5 -1.553
	62.5 -6.977	62.5 -6.906	62.5-10.215	62.5-11.368	62.5 -7.197	62.5 10.123	62.5 -5.176
	65.0-10.452	65.0-10.550	65.0-17.361	65.0-18.502	65.0-13.639	65.0 -5.436	65.0 -7.606
	70.0 -3.762	70.0 -7.419	70.0-14.108	70-0-15-095	70.0 -9.795	70.0 -5.368	70.0 7.931
	75.0 ~2.725	75.0 -4.853	75.0 -6.615	75.0-10.197	75.0 -5.847	75.0 1.585	75.0 -5.700
	75.6 -3.503	75.6 -4.904	75.6 -6.962	75.6-10.197	75.6 -7.041	75.6 -4.772	75.6 -5.414
	76.3 -4.799	76.3 -6.495	76.3 ~7.015	76.3-12.220	76.3 -8.600	76.3 -5.768	76.3 7.884
	77.1 -4.125	77-1 -4-750	77.1 5.305	77.1-12.167	77.1 -8.340	77.1 -5.626	77.1 0.687
	78.6 5.417	78.6 4.745	78.6 3.705	78.6 3.699	78.6 4.855	78.6 1.585	78.6 10.076
	80.0 -3.140	80.0 -5.058	80.0 -7.122	80.0 -8.174	80.0 -5.015	80.0 -4.297	80.0 -5.462
	85.0 -1.947	85.0 -2.954	65.0 -3.708	85.0 -4.660	85.0 -3.717	85.0 -3.396	85.0 -4.222
	90.0 -1.221	90.0 -1.003	90.0 -0.828	90.0 -1.466	90.0 -1.223	90.0 -1.973	90.0 -2.125
	95.0 -1.221	95.0 -0.490	95.0 -0.562	95.0 -0.933	95.0 -0.548	95.0 -1.404	95.0 -1.458
2.5 3.187	2.5 6.765	2.5 0.126	2.5 2.425	2.5 5.828	2.5 0.855	2.5 1.063	2.5 0.973
5.0 1.552 7.5 1.007	5.0 6.091 7.5 5.106	5.0 0.844 7.5 1.204	5.0 1.358 7.5 1.038	5.0 4.337 7.5 1.462	5.0 0.855 7.5 0.803	5.0 1.063 7.5 0.873	5.0 1.068 7.5 0.925
	10.0 4.535	10.0 1.255	7.5 1.038 10.0 1.198	7.5 1.462 10.0 2.953	10.0 0.855	10-0 0-826	10.0 0.877
	15.0 4.484	15.0 1.204	15.0 0.772	15.0 0.824	15.0 1.011	15.0 0.968	15.0 0.973
	20.0 3.706	20.0 1.101	20.0 0.718	20.0 0.824	20.0 1.219	20.0 1.015	20.0 0.973
	30.0 1.165	30.0 0.998	30.0 0.772	30.0 0.611	30.0 0.959	30.0 1.015	30-0 0-734
	50.0 1.735	50.0 1.306	50.0 1.036	50.0 0.930	50.0 2.465	50.0 0.921	50.0 0.544
	65.0 6.765	65.0 5.977	65.0 5.145	65.0 5.935	45.0 6.050	65.0 10.076	65.0 0.639
	70.0 4.950	70.0 4.078	70.0 4.452	70.0 6.041	70.0 5.894	70.0 1.253	70-0 0-687
	76.8 5.469	76.8 0.434	76.8 5.092	76.8 5.968	76.8 6.465	76.8 1.537	76.8 0.782
	77.1 5.780	77.1 5.156	77-1 4-612	77.1 5.455	77-1 5-634	77.1 1.822	77.1 0.448
	80.0 5.676	80.0 5.413	80.0 5.358	80.0 6.254	80.0 6.206	80.0 1.632	80.0 0.591
	85.0 3.861	85.0 3.462	85.0 4.078	85.0 6.627	65.0 6.258	85.0 0.731	85.0 0.734
	90.0 3.032	90.0 2.384	90.0 2.745	90.0 5.828	90.0 5.167	90.0 0.399	90.0 0.782
	95.0 2.617	95.0 1.666	95.0 1.945	95.0 4.550	95.0 4.232	95.0 1.395	95.0 0.639
TETAL NORMAL C							
CN = 6.20	8.37	6.70	0.22	10.32	10.27	5.90	3.55

TABLE	V-6	35
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RUN 50 - POI	NT 3	Q = 4.16	ALPHA =	O TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 0.3.5	06.846	04.912	05.350	010.224	0. 1.037	0. 0.417	0. 1.127
1.2 -1.188	1.2 -2.398	1.2 -1.177	1.2 -1.570	1.2 -3.162	1.2 -1.869	1.2 1.084	1.2 1.038
2.5 -1.087	2.5 -2.156	2.5 -2.039	2.5 -2.117	2.5 -2.764	2.5 -1.966	2.5 1.084	2.5 -5.360
5.0 -1.087	5.0 -3.123	5.0 -3.284	5.0 -3.162	5.0 -3.609	5.0 1.231	5.0 1.218	5.0 1.216
7.5 -1.037	7.5 -3.365	7.5 -4.003	7.5 -1.073	7.5 -4.306	7.5 0.456	7.5 1.084	7.5 1.127
10.0 -1.894	10.0 -1.866	10.0 -4.386	10.0 -4.156	10.0 -4.256	10.0 -0.803	10.0 -2.119	10.0 -1.628
15.0 -2.398	15.0 -3.655	15.0 -4.242	15.0 -0.774	15.0 -4.007	15.0 -2.401	15.0 -2.164	15.0 -1.539
20.0 -2.852	20.0 -3.558	20.0 -4.098	20.0 -4.107	20.0 -4.057	20.0 -3.080	20.0 -2.164	20.0 -1.672
25.0 -2.902	25.0 -3.897	25.0 -4.386	25.0 -1.222	25.0 -4.405	25.0 -3.467	25.0 -2.297	25.0 -1.716
30.0 -3.154	30.0 -4.042	30.0 -4.338	30.0 -4.604	30.0 -4.704	30.0 -3.709	30.0 -2.208	30.0 -1.628
40.0 -2.902	40.0 -4.042	40.0 -4.194	40.0 -4.405	40.0 -4.753	40.0 -3.854	40.0 -2.208	40.0 -1.672 50.0 -1.672
50.0 -3.104	50.0 -3.993	50.0 1.169		50.0 -5.251	50.0 -4.387 60.0 -4.726	50.0 -2.208 60.0 -2.253	60.0 -1.672
60.0 -3.204 61.5 -2.499	60.0 -3.413	60.0 -4.05C	60.0 -4.355	60.0 -5.350 61.5 -1.520			61.5 -0.206
62.5 -7.339	61.5 -1.962	62.5-10.419	61.5 0.270	62.5 -3.510	61.5 -0.174	61.5 -2.831	62.5 -1.094
65.0-11.745	65.0-14.148	65.0-15.064	65.0 -9.478	65.0 -9.279	65.0 -8.407	65.0 -4.033	65.0 -2.916
70.0 -9.204	70.0-11.150	70.0-11.903	70.0 -9.926	70.0 -9.031	70.0-10.005	70.0 -3.810	
75.0 -5.574	75.0 -6.798	75.0 -7.450	75.0 -6.444	75.0 -6.295	75.0 -6.470	75.0 0.506	75.0 -2.116
	75.6-18.596	75.6-21.863	75.6 -1.023	75.6 -3.062	75.6 -3.080	75.6 -1.808	75.6 -1.139
75.6-16.010 76.3-14.750	76.3-16.227	76.3-19.756	76.3 -1.670	76.3 -3.808	76.3 -5.162	76.3 -2.342	76.3 -3.982
77.1 1.031	77-1-11-440	77-1-12-478	77.1 -7.290	77.1 -5.300	77.1 -5.695	77.1 -2.386	77.1 0.683
78.6 3.047	78.6 4.807	78.6 4.329	78.6 4.299	78.6 4.200	78.6 2.684	78.6 0.862	78.6 -2.516
80.0 -6.431	83.0 -6.508	80.0 -7.929	80.0 -5.101	80.0 -5.798	80.0 -4.436	80.0 -1.719	80.0 -1.539
85.0 -6.834	85.0 -1.962	85.0 -3.236	85.0 -5.101	85.0 -4.554	85.0 -3.176	85.0 -1.630	85.0 -1.494
90.0 -1.339	90.0 -1.092	90.0 -0.746	90.0 -1.371	90.0 -1.719	90.0 -0.464	90.0 -0.696	90.0 -0.650
95.0 -0.482	95.0 -1.044	95.0 -1.465	95.0 -0.277	95.0 -0.675	95.0 0.359	95.0 -0.340	95.0 -0.250
2.5 -0.684	2.5 5.823	2.5 2.462	2.5 2.707	2.5 5.891	2.5 0.989	2.5 1.084	2.5 1.216
5.0 -0.079	5.0 4.856	5.0 4.138	5.0 4.498	5.0 5.294	5.0 0.989	5.0 1.040	5.0 1.082
7.5 0.829	7.5 3.888	7.5 3.659	7.5 4.001	7.5 2.061	7.5 0.989	7.5 1.040	7.5 1.038
10.0 1.363	10.0 3.357	10.0 2.988	10.0 3.255	10.0 3.752	10.0 1.037	10.0 0.817	10.0 1.082
15.0 1.686	15.0 3.357	15.0 1.935	15.0 1.464	15.0 1.066	15.0 1.037	15.0 0.639	15.0 0.549
20.0 1.535	20.0 2.728	20.0 1.408	20.0 1.116	20.0 1.116	20.0 1.037	20.0 0.595	20.0 1.127
30.0 0.778	30.0 1.422	30.0 1.121	30.0 0.917	30.0 0.817	30.0 1.037	30.0 0.595	
50.0 1.131	50.0 2.535	50.0 2.510	50.0 2.111	50.0 0.967	50.0 1.231	50.0 1.084	50.0 0.461
65.0 4.560	65.0 5.968	65.0 5.622	65.0 5.940	65.0 6.090	65.0 3.507	65.0 -2.520	65.0 0.860
70.0 4.207	70.0 6.113	70.0 5.526	70.0 4.597	70.0 4.995	70.0 2.442	70.0 0.862	70.0 0.771
76.8 0.980	76.8 6.548	76.8 0.163	76.8 4.846	76.8 5.145	76.8 3.798	76.8 0.862	76.8 0.683
77.1 4.862	77.1 5.823	77.1 5.239	77.1 4.946	77.1 5.393	77.1 3.604	77.1 0.906	77.1 0.727
80.0 3.652	80.0 4.807	80.0 4.856	80.0 5.443	80.0 6.587	80.0 3.943	80.0 0.773	80.0 0.816
85.0 5.871	85.0 6.548	85.0 5.909	85.0 4.200	85.0 5.443	85.0 4.476	85.0 9.773	85.0 0.816
90.0 4.812	90.0 6.548	90.0 5.526	90.0 3.105	90.0 4.647	90.0-23.034	90.0 0.684	90.0 0.638
95.0 3.904	95.0 6.258	95.0 4.712	95.0 2.111	95.0 3.752	95.0 3.604	95.0 1.974	95.0 0.505
TOTAL NORMAL						2 22	2.22
CN = 5.29	8.10	6.75	7.10	7.71	4.47	2.09	2022

		TAB	LE V-86				
RUN 50 - POI	NT 6	Q = 4.22	ALPHA = 1	2 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALNE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
04.551	06.797	02.908	00.568	09.491	0. 0.831	0. 0.498	0. 1.023
1.2 -1.8.7	1.2 -3.556	1.2 -2.436	1.2 -2.872	1.2 -4.637	1.2 -2.702	1.2 1.112	1.2 0.892
2.5 -1.867	2.5 -4.223	2.5 -3.993	2.5 -4.294	2.5 -4.784	2.5 -2.845	2.5 0.981	2.5 -5.415
5.0 -1.867	5.0 -5.272	5.0 -5.693	5.0 -5.569	5.0 -5.422	5.0 -3.561	5.0 0.893	5.0 0.892 7.5 0.629
7.5 -1.867 10.0 -3.607	7.5 -5.319	7.5 -6.259 10.0 -6.684	7.5 -1.646 10.0 -6.255	7.5 -6.157 10.0 -5.765	7.5 -4.134 10.0 -4.277	7.5 0.981 10.0 -4.107	10.0 -3.532
15.0 -4.054	10.0 -3.842 15.0 -5.367	15.0 -6.023	15.0 -1.205	15.0 -5.716	15.0 -5.041	15.0 -4.063	15.0 -3.225
20.0 -4.302	20.0 -5.176	20.0 -5.693	20.0 -5.667	20.0 -5.961	20.0 -5.376	20.0 -4.063	20.0 -3.313
25.0 -4.153	25.0 -5.462	25.0 -5.787	25.0 -1.891	25.0 -6.500	25.0 -5.471	25.0 -4.063	25.0 -3.269
30.0 -4.104	30-0 -5-415	30.0 -5.598	30.0 -5.912	30.0 -6.696	30.0 -5.567	30.0 -3.800	30.0 -2.963
40.0 -3.607	40.0 -5.033	40.0 -5.126	40.0 -5.422	40.0 -6.549	40.0 -5.471	40.0 -3.449	40.0 -2.875
50.0 -3.607	50.0 -4.843	50.0 0.963	50.0 -5.324	50.0 -7.040	50.0 -5.710	50.0 -3.186	50.0 -2.787
60.0 -3.607	60.0 -5.081	60.0 -4.890	60.0 -5.225	60.0 -6.942	60.0 -6.044	60.0 -3.274	60.0 -2.919
61.5 -2.314	61.5 -3.556	61.5 -3.616	61.5 0.364	61.5 -2.137	61.5 -0.076	61.5 -2.835	61.5 -0.466
62.5 -6.887	62.5-11.039	62.5 -9.658	62.5 -2.578	62.5 -4.343	62.5 -3.466	62.5 -2.704	62.5 -2.218
65.0-10.614	65.0-14.567	65.0-13.339	65.0 -8.707	65-0-11-158	65.0-10.055 70.0-12.251	65.0 -5.292 70.0 -5.379	65.0 -4.758 70.0 -2.744
70.0 -7.284	70.0-10.515 75.0 -5.701	70.0 -9.610 75.0 -5.881	70.0 -8.461 75.0 -5.618	70.0-11.011 75.0 -7.873	75.0 -8.288	75.0 1.288	75.0 -3.970
75.6-14.541	75.6-16.044	75.6-19.145	75.6 -1.499	75.6 -4.588	75.6 -4.659	75.6 -2.791	75.6 -2.525
76.3-11.360	76.3-12.517	76.3-16.313	76.3 -1.744	76.3 -5.274	76.3 -7.524	76.3 -3.449	76.3 -4.276
77.1 0.866	77.1 -9.180	77.1-10.602	77.1 -7.383	77.1 -6.696	77.1 -8.479	77.1 -3.625	77.1 0.322
78.6 3.799	78.6 4.691	78.6 4.267	78.6 4.139	78.6 3.894	78.6 4.460	78.6 0.761	78.6 -2.568
80.0 -5.545	80.0 -6.130	80.0 -7.486	80.0 -4.882	80.0 -7.383	80.0 -6.426	80.0 -2.835	80.0 -3.357
85.0 -4.849	85.0 -1.983	85.0 -4.229	85.0 -4.539	85.0 -5.667	85.0 -5.185	85.0 -2.879	85.0 -3.138
90.0 -0.923	90.0 -0.934	90.0 -0.972	90.0 -1.597	90.0 -2.382	90.0 -1.270	90.0 -1.476	90.0 -1.473
95.0 -0.426	95.0 -0.743	95.0 -0.123	95.0 -0.764	95.0 -1.303	95.0 0.115	95.0 -0.949	95.0 -0.948
2.5 2.407	2.5 6.693	2.5 4.314	2.5 1.149	2.5 6.640	2.5 0.831	2.5 0.937	2.5 0.629 5.0 0.804
5.0 3.898 7.5 3.064	5.0 5.739 7.5 4.691	5.0 3.512 7.5 2.521	5.0 1.050 7.5 0.903	5.0 5.757 7.5 2.178	5.0 0.783 7.5 0.783	5.0 0.849 7.5 0.981	7.5 0.848
7.5 3.064 10.0 2.109	7.5 4.691 10.0 3.880	7.5 2.521 10.0 1.860	10.0 0.707	10.0 4.041	10.0 0.879	10.0 0.981	10.0 0.848
15.0 1.016	15.0 3.880	15.0 1.246	15.0 0.805	15.0 0.609	15.0 0.879	15.0 0.849	15.0 0.629
20.0 0.568	20.0 2.736	20.0 0.963	20.0 0.707	20.0 0.805	20.0 0.974	20.0 0.761	20.0 0.760
30.0 0.469	30.0 0.830	30.0 0.821	30.0 0.315	30.0 0.658	30.0 0.974	30.0 0.761	30.0 0.410
50.0 0.866	50.0 1.735	50.0 1.435	50.0 1.296	50.0 0.413	50.0 1.309	50.0 0.893	50.0 0.322
65.0 6.284	65.0 7.122	65.0 6.108	65.0 4.826	65.0 6.542	65.0 4.985	65.0 -2.528	65.0 0.673
70.0 4.097	70.0 5.501	70.0 4.928	70.0 3.992	70.0 4.728	70.0 4.603	70.0 0.717	70.0 0.497
76.8 0.817	76.8 5.596	76.8 0.349	76.8 4.336	76.8 4.385	76.8 5.462	76.8 0.805	76.8 0.454
77.1 5.389	77.1 5.215	77-1 5-259	77.1 4.483	77.1 5.414	77.1 5.271	77.1 0.893	77.1 0.410
80.0 5.339	80.0 5.310	80.0 5.683	80.0 4.973	80.0 6.395	80.0 6.226	80.0 0.893 85.0 0.542	80.0 0.629 85.0 0.541
85.0 4.892	85.0 4.786 90.0 3.976	85.0 5.400	85.0 3.061 90.0 1.737	85.0 4.483 90.0 3.208	85.0 5.653 90.0 4.603	85.0 0.542 90.0 0.542	90.0 0.497
90.0 3.401 95.0 2.457	90.0 3.976 95.0 3.213	90.0 3.512 95.0 2.474	90.0 1.737 95.0 0.903	90.0 3.208 95.0 2.129	95.0 3.744	95.0 2.516	95.0 D.191
TOTAL NORMAL		U LOTIT	-200 V8703	20127	-200 30177		
1 = 5.55	8.46	6.79	6.71	8.93	8.16	3.17	3.25

			3LE V-87				
RUN 50 - P	B TAIC	Q = 4.25	ALPHA = 1	8 TCP =	2.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
01.45	06.891	00.497	01.051	07.915	0. 0.825	0. 0.582	0. 0.92
1.2 -1.70	1.2 -4.146	1.2 -2.934	1.2 -3.485	1.2 -5.043	1.2 -3.536	1.2 0.886	1.2 0.88
2.5 -2.15	2.5 -4.856	2.5 -4.950	2.5 -5.189	2.5 -5.481	2.5 -3.679	2.5 0.974	2.5 -5.29
5.0 -2.150		5.0 -6.590	5.0 -6.309	5.0 -6.065	5.0 -5.148	5.0 0.843	5.0 0.79
7.5 -2.150	7.5 -5.802	7.5 -7.059	7.5 -1.830	7.5 -6.698	7.5 -5.907	7.5 0.974	7.5 0.79
10.0 -4.17	10.0 -4.051	10.0 -7.387	10.0 -6.795	10.0 -6.162	10.0 -5.717	10.0 -5.124	10.0 -4.33
15.0 -4.47		15.0 -6.449	15.0 -1.294	15.0 -6.065	15.0 -6.144	15.0 -4.906	15.0 -3.85
20.0 -4.66	20.0 -5.850	20.0 -5.934	20.0 -5.919	20.0 -6.455	20.0 -6.618	20.0 -4.863	20.0 -3.98
25.0 -4.32	25.0 -5.850	25.0 -5.981	25.0 -1.927	25.0 -7.087	25.0 -6.476	25.0 -4.819	25.0 -3.76
30.0 -4.24	30.0 -5.708	30.0 -5.653	30.0 -5.919	30.0 -7.136	30.0 -6.286	30.0 -4.383	30.0 -3.42
40.0 -3.53		40.0 -5.043	40.0 -5.286	40.0 -6.844	40.0 -6.002	40.0 -4.079	40.0 -3.37
50.0 -3.38	50.0 -4.477	50.0 0.815	50.0 -4.897	50.0 -7.185	50.0 -6.144	50.0 -3.817	50.0 -3.20
60.0 -2.89	60.0 -5.045	60.0 -4.481	60.0 -4.653	60.0 -6.747	60.0 -6.381	60.0 -3.774	60.0 -3.33
61.5 -2.05	61.5 -2.868	61.5 -2.794	61.5 0.167	61.5 -2.608	61.5 -0.170	61.5 -2.685	61.5 -0.37
62.5 -5.40	62.5 -8.122	62.5 -7.668	62.5 -2.219	62.5 -4.166	62.5 -3.584	62.5 -2.598	62.5 -2.5
65.0 -8.31	65.0-10.583	65.0-10.293	65.0 -6.941	65.0-10.349	65-0-10-648	65.0 -6.038	65.0 -5.5
70.0 -5.95	70.0 -7.459	70.0 -6.824	70.0 -6.357	70.0-10.155	70.0-12.971	70.0 -6.938	70.0 -2.6
75.0 -2.29	75.0 -3.247	75.0 -3.497	75.0 -3.874	75.0 -7.136	75.0 -8.751	75.0 1.235	75.0 -4.7
75.6 -9.30	75.6 -7.790	75.6-10.996	75.6 -0.856	75.6 -4.459	75.6 -5.053	75.6 -3.208	75.6 -2.9
76.3 -6.88		76.3 -9.262	76.3 -0.953	76.3 -4.653	76.3 -8.230	76.3 -3.948	76.3 -4.0
77.1 0.90			77.1 -7.234	77.1 -5.724	77.1 -9.273	77.1 -4.166	77.1 0.3
78.6 3.72			78.6 3.526	78.6 3.623	78.6 4.807	78.6 0.756	78.6 -2.3
80.0 -3.35		80.0 -4.200	80.0 -3.144	80.0 -6.552	80.0 -6.997	80.0 -3.120	80.0 -3.8
85.0 -2.94	85.0 -1.306	85.0 -2.325	85.0 -2.852	85.0 -4.945	85.0 -5.717	85.0 -3.208	85.0 -3.5
90.0 -0.57	90.0 -0.596	90.0 -0.544	90.0 -0.953	90.0 -1.976	90.0 -1.593	90.0 -1.770	90.0 -1.6
95.0 -0.32	95.0 -0.407	95.0 -0.028	95.0 -0.515	95.0 -0.953	95.0 -0.123	95.0 -1.073	95.0 -1.1
2.5 2.29			2.5 0.556	2.5 7.031	2.5 0.825	2.5 0.930	2.5 0.8
5.0 2.68			5.0 0.799	5.0 6.155	5.0 0.825	5.0 0.974	5.0 0.8
7.5 1.94			7.5 0.751	7.5 2.503	7.5 0.825	7.5 0.974	7.5 0.9
10.0 1.35			10.0 0.751	10.0 4.451	10.0 0.873	10.0 0.974	10.0 1.1
15.0 0.86		15.0 0.956	15.0 0.556	15.0 0.799	15.0 0.920	15-0 1-017	15.0 0.7
20.0 0.71	2 20.0 2.812		20.0 0.605	20.0 0.994	20.0 0.967	20.0 0.886	20.0 0.8
30.0 0.56			30.0 0.799	30.0 1.043	30.0 0.920	30-0 0-756	30.0 0.5
50.0 0.76	50.0 1.486	50.0 1.190	50.0 1.092	50.0 0.556	50.0 1.252	50.0 0.974	50.0 0.3
65.0 5.15	3 65.0 5.793	65.0 4.659	65.0 4.013	65.0 6.447	65.0 5.139	65.0 -2.511	65.0 0.6
70.0 4.11	7 70.0 3.806	70.0 3.768	70.0 2.503	70.0 4.061	70.0 4.997	70.0 0.669	70.0 0.5
76.8 0.90			76.8 3.526	76.8 3.331	76.8 5.803	76.8 0.669	76.8 0.5
77.1 4.80	8 77.1 4.279	77.1 4.565	77.1 3.867	77.1 4.840	77.1 5.471	77.1 0.843	77.1 0.4
80.0 4.80			80.0 3.769	80.0 5.376	80.0 6.514	80.0 0.712	80.0 0.6
85.0 4.24			85.0 2.455	85.0 2.942	85.0 5.898	85.0 0.364	85.0 0.6
90.0 2.88			90.0 1.384	90.0 2.017	90.0 4.855	90.0 0.320	90.0 0.5
95.0 2.04	95.0 2.433		95.0 0.994	95.0 1.384	95.0 3.812	95.0 2.062	95.0 0.3
TOTAL NORMA	L COEFFICIENT						
5 4.91	7.57	5.77	5.90	8.70	8.92		3.75

	TA	BLE V-88				
RUN 58, POINT 1	Q = 4.70	ALPHA =	0 TCP =	0.60		
VALVE 1 VALVE 3 100X CP 100X CP	VALVE 4 100X CP	VALVE 5 100X CP	VALVE 6 100X CP	VALVE 7 100X CP	VALVE 8 100X CP	VALVE 9 100X CP
Q0.165 Q5.935	04.140	00.787	01.978	0. 0.452	0. 0.292	0. 0.451
1.2 -0.938 1.2 -2.113	1.2 -1.024	1.2 -1.278	1.2 -1.845	1.2 -0.902	1.2 0.492	1.2 0.531
2.5 -0.938 2.5 -1.939	2.5 -1.673	2.5 -1.546	2.5 -1.933	2.5 -1.164	2.5 0.492	2.5 4.563
5.0 -0.938 5.0 -2.721	5.0 -2.538	5.0 -1.992	5.0 -2.288	5.0 -1.862	5.0 0.492	5.0 0.451
7.5 -0.892 7.5 -2.982	7.5 -2.928	7.5 -0.475	7.5 -2.598	7.5 -2.037	7.5 0.492	7.5 0.491
10.0 -1.802 10.0 -3.329	10.0 -3.231	10.0 -1.992	10.0 -2.465	10.0 -1.993	10.0 -2.427	10.0 -2.024
15.0 -2.302 15.0 -3.025		15.0 -0.341	15.0 -2.376	15.0 -1.950	15.0 -2.347	15.0 -1.944
20.0 -2.620 20.0 -2.982		20.0 -1.680	20.0 -2.332	20.0 -2.343	20.0 -2.267	20.0 -2.104
25.0 -2.666 25.0 -3.155		25.0 -0.385	25.0 -2.376	25.0 -2.212	25.0 -2.307	25.0 -2.144
30.0 -2.848 30.0 -3.286		30.0 -0.430	30.0 -2.376	30.0 -2.168	30.0 -2.187	30.0 -1.944
40.0 -2.666 40.0 -3.242		40.0 -2.081	40.0 -2.332	40.0 -2.037	40.0 -2.187	40.0 -2.064
50.0 -2.802 50.0 -3.068		50.0 -2.081	50.0 -2.421	50.0 -2.124	50.0 -2.068	50.0 -1.984
60.0 -2.848 60.0 -2.938		60.0 -2.037	60.0 -2.421	60.0 -2.168	60.0 -2.108	60.0 -2.144
61.5 -2.302 61.5 -1.418		61.5 -0.608	61.5 -1.180	61.5 -0.771	61.5 6.530	61.5 -1.026
62.5 -5.985 62.5 -7.499		62.5 -3.019	62.5 -3.440	62.5 -2.954	62.5 7.129	62.5 -3.142
65.0 -9.168 65.0-10.278		65.0 -4.135	65.0 ~5.124	65.0 -4.875	65.0 -4.427	65.0 -4.619
70.0 -6.895 70.0 -7.672		70.0 -4.179	70.0 -4.104	70.0 -4.220	70.0 -3.667	70.0 6.160
75.0 -4.121 75.0 -4.502		75.0 -2.885	75.0 -2.731	75.0 -2.779	75.0 0.252	75.0 -2.942
75.6 -3.257 75.6 -3.459		75.6 -2.438	75.6 -2.598	75.6 -2.998	75.6 -2.267	75.6 -2.543
76.3 -4.712 76.3 -5.240		76.3 -2.438	76.3 -2.997	76.3 -3.478	76.3 -2.747	76.3 5.361
77.1 0.790 77.1 -5.978		77.1 3.230	77-1 -3-085	77.1 -3.085	77.1 -2.427	77.1 0.770
78.6 2.336 78.6 3.707		78.6 0.864	78.6 0.592 80.0 -2.376	78.6 1.194	78.6 0.652	78.6 6.918
80.0 -3.530 80.0 -3.546 85.0 -3.484 85.0 -2.547		80.0 -2.885	85.0 -1.402	80.0 -2.299 85.0 -1.251	80.0 -1.468 85.0 -0.788	80.0 -2.384 85.0 -1.625
85.0 -3.484 85.0 -2.547 90.0 -1.347 90.0 -0.072		85.0 -1.814 90.0 -0.564	90.0 -0.737	90.0 -0.334	90.0 -0.308	90.0 -0.627
95.0 -0.574 95.0 0.797		95.0 -0.341	95.0 -0.471	95.0 -0.072	95.0 -0.108	95.0 -0.268
2.5 -0.392 2.5 4.228		2.5 0.552	2.5 1.655	2.5 0.452	2.5 0.492	2.5 0.451
5.0 0.063 5.0 3.707		5.0 0.641	5.0 1.345	5.0 0.452	5.0 0.492	5.0 0.491
7.5 0.927 7.5 2.925		7.5 0.641	7.5 0.371	7.5 0.452	7.5 0.492	7.5 0.451
10.0 1.063 10.0 2.491		10.0 0.731	10.0 0.947	10.0 0.452	10.0 0.612	10.0 0.531
15.0 1.356 15.0 2.447		15.0 0.552	15.0 0.371	15.0 0.452	15.0 0.372	15.0 0.451
20.0 1.200 20.0 1.883		20.0 0.597	20.0 0.371	20.0 0.452	20.0 0.452	20.0 0.810
30.0 0.836 30.0 0.971		30.0 0.686	30.0 0.459	30.0 0.452	30.0 0.452	30.0 0.291
50.0 0.927 50.0 1.796		50.0 0.731	50.0 0.459	50.0 0.452	50.0 0.852	50.0 0.371
· 65.0 3.701 65.0 4.358		65.0 1.043	65.0 1.345	65.0 1.457	65.0 7.169	55.0 0.810
70.0 3.019 70.0 4.489	70.0 4.170	70.0 0.909	70.0 0.947	70.0 1.107	70.0 0.772	70.0 0.850
76.8 0.790 76.8 4.706	76.8 0.275	76.8 0.954	76.8 0.725	76.8 1.762	76.8 0.772	76.8 0.810
77.1 3.362 77.1 4.358		77.1 0.909	77.1 0.814	77.1 1.588	77.1 0.772	77.1 0.730
80.0 2.882 80.0 4.619	80.0 4.343	80.0 0.820	80.0 1.079	80.0 1.675	80.0 0.772	80.0 0.690
85.0 3.973 85.0 4.749		85.0 0.641	85.0 0.814	85.0 1.762	85.0 0.772	85.0 0.930
90.0 3.337 90.0 4.489		90.0 0.686	90.0 0.769	90.0 1.413	90.0 0.612	90.0 0.890
95.0 2.928_ 95.0 4.185	95.0 3.131	95.0 0.864	95.0 0.636	95.0 1.194	95.0 0.772	95.0 0.730
TOTAL NORMAL COEFFICIENT						
CN = 4.39 6.21	4.64	2.44	3.03	2.94	3.19	1.76

TABLE V-89

RUN 58, POINT 4	0 = 4.70	ALPHA = 1	2 TCP =	0.60		
VALVE 1 YALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP 100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
04.075 04.545	03.923	01.010	01.225	0. 0.539	0. 0.332	0. 0.531
1.2 -1.7.1 1.2 -3.199	1.2 -1.976	1.2 -2.260	1.2 -2.687	1.2 -1.557	1.2 0.572	1.2 0.531
2.5 -1.620 2.5 -3.590	2.5 -3.231	2.5 -3.108	2.5 -2.952	2.5 -2.299	2.5 0.572	2.5 4.483
5.0 -1.620 5.0 -4.719	5.0 -4.442	5.0 -3.733	5.0 -3.307	5.0 -3.522	5.0 0.572	5.0 0.531
7.5 -1.665 7.5 -4.632	7.5 -4.875	7.5 -1.010	7.5 -3.440	7.5 -3.609	7.5 0.572	7.5 0.491
10.0 -3.348 10.0 -3.546	10.0 -5.178	10.0 -3.599	10.0 -3.174	10.0 -3.391	10.0 -4.187	10.0 -3.421
15.0 -3.712 15.0 -4.285	15.0 -4.659	15.0 -0.653	15.0 -3.174	15.0 -3.041	15.0 -3.827	15.0 -3.182
20.0 -3.939 20.0 -4.067	20.0 -4.226	20.0 -2.796	20.0 -3.263	20.0 -3.522	20.0 -3.707	20.0 -3.262
25.0 -3.803 25.0 -4.198	25.0 -4.269	25.0 -0.698	25.0 -3.218	25.0 -3.041	25.0 -3.627	25.0 -3.222
30.0 -3.803 30.0 -4.241	30.0 -4.053	30.0 -2.974	30.0 -3.085	30.0 -2.954	30.0 -3.307	30.0 -2.942
40.0 -3.393 40.0 -3.981	40.0 -3.577	40.0 -2.929	40.0 -2.952	40.0 -2.736	40.0 -3.107	40.0 -2.863
50.0 -3.302 50.0 -3.677 60.0 -3.257 60.0 -3.068	50.0 0.751	50.0 -2.929	50.0 -3.041	50.0 -2.648	50.0 -2.787	50.0 -2.783
60.0 -3.257 60.0 -3.068 61.5 -2.575 61.5 -2.026	60.0 -3.144	60.0 -2.885	60.0 -2.908	60.0 -2.692	60.0 -2.787	60.0 -2.902
62.5 -6.076 62.5 -8.541	61.5 -2.019 62.5 -6.520	62.5 -3.420	61.5 -0.914 62.5 -3.528	61.5 -0.727 62.5 -3.260	61.5 6.210	61.5 -1.066 62.5 -4.180
65.0 -8.896 65.0-10.713	65.0 -9.333	65.0 -3.510	65.0 -5.301	65.0 -5.443	65.0 -5.586	65.0 -6.376
70.0 -6.258 70.0 -8.324	70.0 -7.082	70.0 -4.179	70.0 -4.370	70.0 -4.482	70.0 -4.467	70.0 5.920
75.0 -3.348 75.0 -5.110	75.0 -4.572	75.0 -2.796	75.0 -2.908	75.0 -2.561	75.0 0.692	75.0 -4.499
75.6 -3.166 75.6 -4.241	75.6 -4.832	75.6 -2.528	75.6 -2.731	75.6 -2.561	75.6 -2.307	75.6 -3.701
76.3 -4.348 76.3 -6.152	76.3 -6.563	76.3 -2.617	76.3 -3.174	76.3 -2.954	76.3 -2.627	76.3 5.241
77.1 0.699 77.1 -6.804	77.1 -5.005	77.1 3.052	77.1 -3.263	77.1 -2.736	77.1 -2.427	77.1 0.531
78.6 3.109 78.6 4.141	78.6 3.823	78.6 0.686	78.6 0.371	78.6 0.801	78.6 0.732	78.6 6.798
80.0 -2.939 80.0 -4.154	80.0 -4.269	80.0 -2.662	80.0 -2.244	80.0 -1.906	80.0 -1.348	80.0 -3.501
85.0 -2.893 85.0 -3.199	85.0 -3.361	85.0 -1.947	85.0 -1.402	85.0 -0.989	85.0 -0.668	85.0 -1.625
90.0 -1.438 90.0 -0.549	90.0 -0.764	90.0 -0.921	90.0 -0.870	90.0 -0.334	90.0 -0.348	90.0 -0.787
95.0 -1.029 95.0 0.102	95.0 -0.201	95.0 -0.608	95.0 -0.649	95.0 -0.028	95.0 -0.308	95.0 -0.867
2.5 3.428 2.5 5.140	2.5 3.694	2.5 0.775	2.5 0.769	2.5 0.539	2.5 0.612	2.5 0.531
5.0 3.928 5.0 4.445	5.0 3.218	5.0 0.864	5.0 0.991	5.0 0.539	5.0 0.572	5.0 0.571
7.5 2.791 7.5 3.664	7.5 2.439	7.5 0.954	7.5 0.326	7.5 0.496	7.5 0.572	7.5 0.531
10.0 1.730 10.0 3.099	10.0 1.876	10.0 0.954	10.0 0.991	10.0 0.496	10.0 1.011	10.0 0.650
15.0 0.927 15.0 3.142	15.0 1.313	15.0 0.775	15.0 0.415	15.0 0.539	15.0 0.891	15.0 0.730
20.0 0.654 20.0 1.970	20.0 1.010	20.0 0.820	20.0 0.459	20.0 0.583	20.0 0.891	20.0 0.730
30.0 0.608 30.0 0.754	30.0 0.794	30.0 0.864	30.0 0.681	30.0 0.539	30.0 0.692	30.0 0.531
50.0 0.790 50.0 1.622	50.0 1.357	50.0 0.775	50.0 0.592	50.0 0.801	50.0 0.732	50-0 0-491
65.0 4.792 65.0 5.314	65.0 4.689	65.0 1.445	65.0 0.769 70.0 0.769	65.0 1.020	65.0 6.969	65.0 0.650 70.0 0.770
70.0 3.655 70.0 4.880 76.8 0.654 76.8 5.053	70.0 4.170 76.8 0.231	70.0 1.043 76.8 1.043	70.0 0.769 76.8 0.681	70.0 1.282 76.8 1.063	70.0 0.852 76.8 0.692	70.0 0.770 76.8 0.730
77.1 3.928 77.1 4.749	77.1 4.300	76.8 1.043 77.1 1.043	77.1 0.592	76.8 1.063 77.1 0.976	77.1 0.812	77.1 0.531
80.0 4.883 80.0 5.184	80.0 4.776	80.0 1.177	80.0 0.725	80.0 1.063	80.0 0.692	80.0 0.650
85.0 3.473 85.0 4.793	85.0 3.910	85.0 1.266	85.0 0.769	85.0 1.063	85.0 0.852	85.0 0.770
90.0 2.382 90.0 4.054	90.0 2.828	90.0 1.355	90.0 0.681	90.0 0.932	90.0 0.852	90.0 0.770
95.0 1.654 95.0 3.012	95.0 2.006	95.0 0.909	95.0 0.548	95.0 0.758	95.0 0.772	95.0 0.611
TOTAL NORMAL COEFFICIENT	2000					
CN = 4.98 7.06	5.30	3.37	3.49	3.41	3.90	2.58
	***************************************					

Q	=	4.70	ALP	НΑ	=	16	
VA		E 4	VALVE	5			

VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP				
03.848	05.110	03.144	C1.278	01.889	0. 0.539	0. 0.332	0. 0.571
1.2 -1.756	1.2 -3.329	1.2 -2.365	1.2 -2.617	1.2 -3.041	1.2 -1.731	1.2 0.572	1.2 0.531
2.5 -1.756	2.5 -3.546	2.5 -3.534	2.5 -3.465	2.5 -3.307	2.5 -2.605	2.5 0.572	2.5 4.363
5.0 -1.802	5.0 -4.675	5.0 -4.789	5.0 -3.867	5.0 -3.440	5.0 -3.784	5.0 0.572	5.0 0.491
7.5 -1.802	7.5 -4.806	7.5 -5.135	7.5 -1.010	7.5 -3.573	7.5 -3.827	7.5 0.572	7.5 0.491
10.0 -3.7.2	10.0 -3.503	10.0 -5.395	10.0 -3.599	10.0 -3.396	10.0 -3.565	10.0 -4.427	10.0 -3.781
15.0 -3.939	15.0 -4.371	15.0 -4.702	15.0 -0.608	15.0 -3.617	15.0 -3.172	15.0 -4.067	15.0 -3.501
20.0 -4.121	20.0 -4.198	20.0 -4.313	20.0 -2.706	20.0 -3.573	20.0 -3.478	20.0 -3.947	20.0 -3.541
25.0 -3.939	25.0 -4.415	25.0 -4.269	25.0 -0.698	25.0 -3.351	25.0 -3.172	25.0 -3.827	25.0 -3.421
30.0 -3.893	30.0 -4.371	30.0 -4.010	30.0 -2.796	30.0 -3.218	30.0 -2.954	30.0 -3.347	30.0 -3.062
40.0 -3.393	40.0 -4.067	40.0 -3.490	40.0 -2.796	40.0 -3.130	40.0 -2.648	40.0 -2.907	40.0 -2.942
50.0 -3.211	50.0 -3.373	50.0 0.708	50.0 -2.796	50.0 -3.174	50.0 -2.605	50.0 -2.707	50.0 -2.783
60.0 -3.075	60.0 -3.112	60.0 -2.971	60.0 -2.796	60.0 -2.864	60.0 -2.255	60.0 -2.347	60.0 -2.982
61.5 -2.075	61.5 -2.547	61.5 -2.106	61.5 -0.698	61.5 -0.870	61.5 -0.334	61.5 6.210	61.5 -1.026
62.5 -5.530	62.5 -7.325	62.5 -6.130	62.5 -3.063	62.5 -3.440	62.5 -2.823	62.5 6.929	62.5 -4.180
65.0 -7.759	65.0 -8.715	65.0 -8.467	65.0 -3.197	65.0 -5.256	65.0 -5.137	65.0 -5.426	65.0 -6.376 70.0 5.920
70.0 -5.030 75.0 -3.120	70.0 -5.718 75.0 -4.024	70.0 -6.087 75.0 -3.837	70.0 -3.420	70.0 -4.193	70.0 -4.133	70.0 -4.227	70.0 5.920 75.0 -4.659
			75.0 -2.438	75.0 -2.820	75.0 -2.299	75.0 0.732	
75.6 -3.302	75.6 -3.677	75.6 -4.226	75.6 -2.305	75.6 -2.642	75.6 -2.255	75.6 -2.147	75.6 -3.940
76.3 -4.075	76.3 -4.762	76.3 -5.308	76.3 -2.260	76.3 -3.041	76.3 -2.561	76.3 -2.507	76.3 5.161
77.1 0.654	77.1 -5.023	77.1 -3.707	77.1 3.007	77.1 -2.908	77.1 -2.386	77.1 -2.387	77.1 0.571 78.6 6.639
78.6 3.382	78.6 4.272	78.6 3.997	78.6 0.686	78.6 0.326	78.6 0.714 80.0 -1.644	78.6 0.732 80.0 -1.348	78.6 6.639 80.0 -3.701
80.0 -Z.939	80.0 -3.894	80.0 -3.361	80.0 -2.438	80.0 -2.155	85.0 -0.858	85.0 -0.668	85.0 -1.785
85.0 -3.120 90.0 -0.938	85.0 -2.460 90.0 -0.897	85.0 -2.582 90.0 -0.591	85.0 -1.858 90.0 -0.921	85.0 -1.402 90.0 -0.781	90.0 -0.247	90.0 -0.268	90.0 -0.867
95.0 -0.528	95.0 -0.506	95.0 -0.158	95.0 -0.564	95.0 -0.604	95.0 -0.028	95.0 -0.308	95.0 -0.787
2.5 3.473	2.5 5.357	2.5 3.521	2.5 0.731	2.5 0.681	2.5 0.539	2.5 0.652	2.5 0.531
5.0 3.519	5.0 4.576	5.0 2.568	5.0 0.864	5.0 0.814	5.0 0.539	5.0 0.572	5.0 0.531
7.5 2.200	7.5 3.794	7.5 1.919	7.5 0.909	7.5 0.238	7.5 0.539	7.5 0.612	7.5 0.491
10.0 1.336	10.0 3.229	10.0 1.530	10.0 0.909	10.0 0.769	10.0 0.539	10.0 0.971	10.0 0.611
15.0 0.790	15.0 3.186	15.0 1.140	15.0 0.731	15.0 0.371	15.0 0.583	15.0 0.931	15.0 0.730
20.0 0.699	20.0 2.143	20.0 0.967	20.0 0.820	20.0 0.415	20.0 0.627	20.0 0.891	20.0 0.650
30.0 0.608	30.0 0.754	30.0 0.794	30.0 0.864	30.0 0.592	30.0 0.539	30.0 0.692	30.0 0.571
50.0 0.745	50.0 1.449	50.0 1.184	50.0 0.775	50.0 0.503	50.0 0.845	50.0 0.732	50.0 0.531
65.0 5.110	65.0 5.444	65.0 4.862	65.0 1.132	65.0 0.681	65.0 1.020	65.0 6.889	65.0 0.531
70.0 3.473	70.0 4.402	70.0 3.910	70.0 1.177	70.0 0.681	70.0 1.020	70.0 0.772	70.0 0.690
76.8 0.654	76.8 4.836	76.8 0.275	76.8 0.998	76.8 0.636	76.8 0.976	76.8 0.732	76.8 0.730
77.1 3.837	77.1 4.836	77.1 4.429	77.1 0.998	77.1 0.503	77.1 0.889	77.1 0.812	77.1 0.491
80.0 4.565	80.0 5.053	80.0 4.776	80.0 1.222	80.0 0.636	80.0 1.063	80.0 0.572	80.0 0.690
85.0 3.200	85.0 3.707	85.0 3.434	85.0 1.088	85.0 0.681	85.0 0.976	85.0 0.732	85.0 0.690
90.0 2.245	90.0 2.882	90.0 2.309	90.0 1.132	90.0 0.592	90.0 0.845	90.0 0.772	90.0 0.690
95.0 1.745	95.0 2.143	95.0 1.573	95.0 0.864	95.0 0.459	95.0 0.801	95.0 0.772	95.0 0.650
TOTAL NORMAL							
CN = 4_82	6.53	4.94	3.18	2.48	2.32	3.43	2.67

RUN 57, POINT 1	Q = 3.29	ALPHA =	0 TCP =	1.50		
VALVE 1 VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP 100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 0.232 011.383	05.531	01.176	04.965	0. 0.658	0. 0.486	0. 1.455
1.2 -1.262 1.2 -3.379	1.2 -1.265	1.2 -2.005	1.2 -3.256	1.2 -0.839	1.2 0.772	1.2 0.770
2.5 -1.392 2.5 -2.448	2.5 -2.130	2.5 -2.515	2.5 -3.193	2.5 -1.276	2.5 0.600	2.5 7.043
5.0 -1.327 5.0 -3.689	5.0 -3.490	5.0 -3.216	5.0 -3.636	5.0 -1.900	5.0 0.772	5.0 0.542
7.5 -1.327 7.5 -4.185	7.5 -4.170	7.5 -1.303	7.5 -4.142	7.5 -2.274	7.5 0.714	7.5 0.428
10.0 -1.912 10.0 -3.255	10.0 -4.665	10.0 -3.471	10.0 -3.953	10.0 -2.336	10.0 -2.656	10.0 -1.967
15.0 -2.627 15.0 -4.433	15.0 -4.480	15.0 -1.176	15.0 -3.826	15.0 -2.336	15.0 -2.713	15.0 -1.625
20.0 -3.341 20.0 -4.309	20.0 -4.232	20.0 -2.834	20.0 -3.763	20.0 -2.773	20.0 -2.542	20.0 -1.967
25.0 -3.471 25.0 -4.620	25.0 -4.480	25.0 -1.303	25.0 -3.826	25.0 -2.773	25.0 -2.542	25.0 -2.138
30.0 -3.796 30.0 -4.930	30.0 -4.418	30.0 -3.599	30.0 -3.953	30.0 -2.773	30.0 -2.542	30.0 -2.081
40.0 -3.601 40.0 -4.744	40.0 -4.109	40.0 -3.535	40.0 -3.953	40.0 -2.648	40.0 -2.427	40.0 -2.195
50.0 -3.861 50.0 -4.558	50.0 1.270	50.0 -3.535	50.0 -4.142	50.0 -2.711	50.0 -2.370	50.0 -2.081
60.0 -4.121 60.0 -4.930	60.0 -3.799	60.0 -3.535	60.0 -4.269	60.0 -2.898	60.0 -2.370	60.0 -2.366
61.5 -2.822 61.5 -2.138	61.5 -2.316	61.5 -1.303	61.5 -2.877	61.5 -1.089	61.5 9.683	61.5 -0.998
62.5 -8.863 62.5-11.941	62.5 -9.240	62.5 -5.066	62.5 -5.978	62.5 -4.270	62.5 10.483	62.5 -3.051
65.0-15.099 65.0-16.781 70.0-11.527 70.0-12.872	65.0-13.568 70.0-10.415	65.0 -7.999 70.0 -6.915	65.0 -8.700 70.0 -7.244	65.0 -7.514 70.0 -6.890	65.0 -5.284 70.0 -4.484	65.0 -4.876 70.0 9.325
75.0 -7.499 75.0 -7.908	75.0 -6.582	75.0 -5.066	75.0 -5.282	75.0 -4.645	75.0 0.714	75.0 -3.564
75.6 -6.200 75.6 -6.419	75.6 -7.200	75.6 -4.364	75.6 -5.535	75.6 -5.393	75.6 -2.942	75.6 -2.937
76.3 -8.863 76.3 -9.273	76.3 -9.796	76.3 -5.193	76.3 -6.105	76.3 -6.017	76.3 -3.170	76.3 7.842
77.1 1.076 77.1-10.886	77.1 -7.509	77-1 4-499	77-1 -6-105	77.1 -5.767	77.1 -3.170	77.1 0.770
78.6 3.999 78.6 6.487	78.6 6.278	78.6 0.737	78.6 0.288	78.6 1.719	78.6 0.772	78.6 10.237
80.0 -6.719 80.0 -6.853	80.0 -6.396	80.0 -4.810	80.0 -5.029	80-0 -4-457	80.0 -1.856	80.0 -2.766
85.0 -6.524 85.0 -4.806	85.0 -4.851	85.0 -3.599	85.0 -3.130	85.0 -2.523	85.0 -1.114	85.0 -1.796
90.0 -1.782 90.0 -0.338	90.0 -0.708	90.0 -1.559	90.0 -1.864	90.0 -0.590	90.0 -0.371	90.0 -0.656
95.0 -0.873 95.0 1.337	95.0 0.281	95.0 -1.431	95.0 -1.421	95.0 -0.028	95.0 -0.314	95.0 -0.484
2.5 -1.262 2.5 7.604	2.5 1.517	2.5 -1.240	2.5 2.187	2.5 0.533	2.5 0.772	2.5 0.770
5.0 -0.938 5.0 6.176	5.0 4.485	5.0 -0.602	5.0 1.554	5.0 0.533	5.0 0.657	5.0 0.656
7.5 -0.353 7.5 4.873	7.5 4.670	7.5 -0.347	7.5 -0.218	7.5 0.533	7.5 0.714	7.5 0.542
10.0 0.057 10.0 3.943	10.0 3.805	10.0 -0.156	10.0 0.795	10.0 0.533	10.0 0.772	10.0 0.656
15.0 0.816 15.0 3.943	15.0 2.259	15.0 0.099	15.0 -0.345	15.0 0.596	15.0 0.886	15.0 0.542
20.0 0.946 20.0 2.888	20.0 1.394	20.0 0.099	20,0 -0,281	20.0 0.596	20.0 0.600	20.0 1.226
30.0 1.141 30.0 1.213	30.0 0.961	30.0 0.227	30.0 -0.218	30.0 0.658	30.0 0.657	30.0 0.428
50.0 1.206 50.0 2.764	50.0 2.568	50.0 0.227	50.0 -0.408	50.0 0.533	50.0 1.229	50.0 0.428
65.0 4.779 65.0 7.417	65.0 7.638	65.0 0.546	65.0 1.934	65.0 2.405	65.0 10.654	65.0 0.713
70.0 4.259 70.0 7.666	70.0 7.267	70.0 0.354	70.0 0.858	70.0 1.906	70.0 0.657	70.0 0.713
76.8 1.076 76.8 8.038	76.8 0.095	76.8 0.482	76.8 0.858	76.8 2.717	76.8 0.886	76.8 0.770
77.1 5.624 77.1 7.541 80.0 5.883 80.0 8.038	77.1 7.143	77.1 0.609	77.1 0.858	77.1 2.342	77.1 0.772	77.1 0.599 80.0 0.599
	80.0 7.762	80.0 0.482	80.0 0.985	80.0 2.529	80.0 0.657	
85.0 6.728 85.0 8.286 90.0 5.753 90.0 7.790	85.0 7.205 90.0 6.216	85.0 0.546 90.0 0.227	85.0 0.415 90.0 0.162	85.0 3.029 90.0 2.654	85.0 0.829 90.0 0.772	85.0 0.770 90.0 0.884
95.0 4.844 95.0 7.231	95.0 5.103	95.0 0.163	95.0 -0.091	95.0 2.218	95.0 1.514	95.0 0.599
TOTAL NORMAL COEFFICIENT	,JeU JeIUJ	1760 A8T02	2200 -000AF	,,,,, 2,210	Tealt	,500 00377
CN = 6.34 9.99	7.15	3.51	4.40	4.28	4.09	1.67

TABLE	V00

RUN 57 PO	INT 4	Q = 3.32	ALPHA = 1	.2 TCP =	1.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP							
04.148	09.436	03.091	01.229	01.032	0. 0.466	0. 0.311	0. 0.650
1.2 -2.474	1.2 -4.332	1.2 -2.050	1.2 -3.504	1.2 -3.102	1.2 -1.326	1.2 0.594	1.2 0.537
2.5 -2.281	2.5 -4.517	2.5 -3.704	2.5 -4.451	2.5 -3.729	2.5 -2.377	2.5 0.481	2.5 6.754
5.0 -2.346	5.0 -6.115	5.0 -5.726	5.0 -4.767	5.0 -4.043	5.0 -3.861	5.0 0.594	5.0 0.480
7.5 -2.281	7.5 -5.869	7.5 -6.461	7.5 -1.608	7.5 -4.356	7.5 -4.294	7.5 0.425	7.5 0.537
10.0 -3.826	10.0 -3.840	10.0 -6.767	10.0 -4.515	10.0 -4.105	10.0 -3.985	10.0 -4.500	10.0 -3.871
15.0 -4.406		15.0 -6.032	15.0 -1.039	15.0 -3.980	15.0 -3.676	15.0 -4.500	15.0 -3.419
20.0 -4.856 25.0 -4.728	20.0 -5.746	20.0 -5.603	20.0 -3.567	20.0 -4.168	20.0 -4.170	20.0 -4.161	20.0 -3.702
30.0 -4.921	25.0 -5.992 30.0 -6.115	25.0 -5.665 30.0 -5.420	25.0 -1.166 30.0 -4.135	25.0 -4.482	25.0 -3.985	25.0 -4.047	25.0 -3.419
40.0 -4.406	40.0 -5.808	40.0 -4.868	40.0 -3.946	30.0 -4.293 40.0 -4.168	30.0 -3.799 40.0 -3.490	30.0 -3.651 40.0 -3.368	30.0 -3.250 40.0 -3.080
50.0 -4.470	50.0 -5.377	50.0 0.768	50.0 -3.883	50.0 -4.293	50.0 -3.614	50.0 -3.255	50.0 -3.023
60.0 -4.534	60.0 -5.070	60.0 -4.439	60.0 -3.883	60.0 -4.231	60.0 -3.676	60.0 -3.028	60.0 -3.136
61.5 -3.633	61.5 -3.717	61.5 -3.091	61.5 -1.734	61.5 -1.722	61.5 -1.141	61.5 9.369	61.5 -1.328
62.5-10.006	62-5-13-924	62.5 -9.953	62.5 -5.336	62.5 -5.423	62.5 -4.974	62.5 10.331	62.5 -4.549
65.0-15.285	65.0-17.982	65.0-14.426	65.0 -6.852	65.0 -8.057	65.0 -8.683	65.0 -6.255	65.0 -6.866
70.0-11.131	70.0-13.740	70.0-11.179	70.0 -6.537	70.0 -6.740	70.0 -7.570	70.0 -4.896	70.0 8.901
75.0 -6.916	75.0 -8.698	75.0 -7.013	75.0 -4.641	75.0 -4.607	75.0 -4.726	75.0 0.764	75.0 -4.888
75.6 -5.564	75.6 -7.345	75.6 -7.870	75.6 -4.262	75.6 -3.980	75.6 -5.097	75.6 -2.519	75.6 -4.436
76.3 -7.431	76.3-10.235	76.3-10.505	76.3 -4.262	76.3 -4.733	76.3 -5.468	76.3 -2.915	76.3 7.771
77.1 0.809	77.1-11.711	77-1 -7-686	77-1 4-584	77.1 -4.795	77.1 -5.159	77.1 -2.859	77.1 0.537
78.6 4.929	78.6 6.981	78.6 6.466	78.6 0.667	78.6 0.223	78.6 1.641	78.6 0.651	78.6 10.144
80.0 -5.758	80.0 -7.960	80.0 -6.522	80.0 -4.767	80.0 -3.729	80.0 -3.614	80.0 -1.557	80.0 -3.815
85.0 -5.693	85.0 -5.869	85.0 -4.868	85.0 -3.567	85.0 -2.286	85.0 -1.883	85.0 -0.821	85.0 -1.724
90.0 -2.153	90.0 -1.012	90.0 -1.131	90.0 -1.924	90.0 -1.471	90.0 -0.523	90.0 -0.481	90.0 -0.876
95.0 -1.702			95.0 -1.418	95.0 -1.157	95.0 -0.090	95.0 -0.368	95.0 -1.158
2.5 -0.608		2.5 4.812	2.5 0.288	2.5 1.414	2.5 0.466	2.5 0.538	2.5 0.593
5.0 2.997	5.0 7.104	5.0 4.996	5.0 0.414	5.0 1.477	5.0 0.466	5.0 0.538	5.0 0.424
7.5 4.800 10.0 3.899	7.5 5.690 10.0 4.768	7.5 4.015	7.5 0.604	7.5 0.348	7.5 0.466	7.5 0.538	7.5 0.593 10.0 0.593
15.0 2.032	15.0 4.522	10.0 2.851 15.0 1.687	10.0 0.540 15.0 0.414	10.0 1.289 15.0 0.285	10.0 0.466 15.0 0.528	10.0 0.991 15.0 0.878	10.0 0.593 15.0 0.763
20.0 1.131	20.0 2.800	20.0 1.197	20.0 0.540	20.0 0.348	20.0 0.652	20.0 0.934	20.0 0.876
30.0 0.487	30.0 1.079	30.0 0.830	30.0 0.540	30.0 0.662	30.0 0.528	30.0 0.594	30.0 0.593
50.0 0.873	50.0 2.001	50.0 1.749	50.0 0.477	50.0 0.411	50.0 0.775	50.0 0.934	50.0 0.650
65.0 8.147			65.0 1.488	65.0 0.787	65.0 2.012	65.0 10.331	65.0 0.537
70.0 5.637	70.0 7.965	70.0 6.834	70.0 1.046	70.0 0.724	70.0 2.259	70.0 0.538	70.0 0.763
76.8 0.809	76.8 8.518	76.8 0.278	76.8 0.856	76.8 0.599	76.8 1.950	76.8 0.594	76.8 0.650
77.1 6.538	77.1 8.211	77.1 7.324	77.1 1.046	77.1 0.536	77.1 2.012	77.1 0.651	77.1 0.480
80.0 8.083	80.0 9.010	80.0 7.875	80.0 1.046	80.0 0.724	80.0 2.321	80.0 0.651	80.0 0.537
85.0 5.894	85.0 7.596	85.0 6.221	85.0 0.920	85.0 0.724	85.0 1.950	85.0 0.538	85.0 0.820
90.0 4.478	90.0 6.489	90.0 4.505	90.0 0.414	90.0 0.662	90.0 1.579	90.0 0.708	90.0 0.706
95.0 2.547	95.0 5.075	95.0 3.158	95.0 0.414	95.0 0.474	95.0 1.332	95.0 0.651	95.0 0.650
TOTAL NORMAL							
N = 7.37	10.93	7.67	4.21	4.68	4.77	4.62	2.58

		T.	ABLE V-93				
RUN 57 PO	INT 5	Q = 3.26	ALPHA = 1	6 TCP =	1.50		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
05.207	09.984	04.084	02.731	01.561	0. 0.475	0. 0.433	0. 0.547
1.2 -2.716	1.2 -4.662	1.2 -2.524	1.2 -4.275	1.2 -3.414	1.2 -1.854	1.2 0.606	1.2 0.375
2.5 -2.651	2.5 -5.100	2.5 -4.645	2.5 -6.463	2.5 -4.116	2.5 -2.987	2.5 0.548	2.5 6.821
5.0 -2.651	5.0 -6.728	5.0 -6.455	5.0 -6.721	5.0 -4.244	5.0 -4.687	5.0 0.548	5.0 0.432
7.5 -2.716	7.5 ~6.603	7.5 -7.141	7.5 -1.701	7.5 -4.500	7.5 -4.876	7.5 0.548	7.5 0.432
10.0 -4.290	10.0 -3.973	10.0 -7.640	10.3 -4.533	10.0 -4.308	10.0 -4.624	10.0 -5.274	10.0 -4.230
15.0 -4.880	15.0 -6.353	15.0 -6.704	15.0 -0.993	15.0 -4.564	15.0 -4.057	15.0 -4.755	15.0 -3.999
20.0 -5.273	20.0 -6.039	20.0 -6.018	20.0 -3.439	20.0 -4.947	20.0 -4.813	20.0 -4.698	20.0 -3.884
25.0 -5.076	25.0 -6.478	25.0 -6.018	25.0 -0.993	25.0 -4.819	25.0 -4.183	25.0 -4.294	25.0 -3.884 30.0 -3.424
30.0 -5.142	30.0 -6.415	30.0 -5.581	30.0 -3.954	30.0 -4.564	30.0 -4.120	30.0 -4.006 40.0 -3.545	40.0 -3.424
40.0 -4.552	40.0 -6.039	40.0 -4.832	40.0 -3.761	40.0 -4.244 50.0 -4.372	40.0 -3.680	50.0 -3.314	50.0 -3.251
50.0 -4.486 60.0 -4.617	50.0 ~5.413 60.0 ~5.163	50.0 0.783 60.0 -4.333	50.0 -3.696 60.0 -3.761	60.0 -4.116	50.0 -3.680 60.0 -3.743	60.0 -3.257	60.0 -3.424
61.5 -4.158	61.5 -4.537	61.5 -3.210	61.5 -1.573	61.5 -1.370	61.5 -1.161	61.5 9.542	61.5 -1.467
62.5 -9.207	62.5-12.740	62.5 -9.013	62.5 -4.082	62.5 -4.883	62.5 -4.750	62.5 10.349	62.5 -4.690
65.0-14.779	65.0-16.684	65.0-12.569	65.0 -5.691	65.0 -7.374	65.0 -8.024	65.0 -6.197	65.0 -7.568
70.0-10.911	70.0-12.614	70.0 -8.077	70.0 -5.562	70.0 -5.969	70.0 -7.016	70.0 -4.928	70.0 9.123
75.0 -6.388	75.0 -7.793	75.0 -5.020	75.0 -4.147	75.0 -4.180	75.0 -4.120	75.0 1.355	75.0 -5.496
75.6 -6.125	75.6 -6.227	75.6 -5.956	75.6 -3.567	75.6 -3.605	75.6 -4.120	75.6 -2.449	75.6 -4.690
76.3 -7.371	76.3 -8.920	76.3 -7.890	76.3 -3.567	76.3 -4.180	76.3 -4.498	76.3 -2.968	76.3 7.742
77.1 0.759	77.1-10.235	77.1 -5.332	77.1 4.669	77-1 -4-308	77.1 -4.057	77.1 -2.795	77-1 0-490
78.6 5.282	78.6 7.173	78.6 6.835	78.6 0.680	78.6 0.483	78.6 1.420	78.6 0.606	78.6 10.274
80.0 -5.601	80.0 -7.480	80.0 -4.521	80.0 -3.825	80.0 -2.967	80.0 -2.798	80.0 -1.527	80.0 -4.287
85.0 -5.535	85.0 -4.975	85.0 -3.522	85.0 -3.696	85.0 -1.817	85.0 -1.350	85.0 -0.720	85.0 -2.043
90.0 -1.798	90.0 -0.717	90.0 -1.026	90.0 -2.152	90.0 -1.242	90.0 -0.469	90.0 -0.374	90.0 -1.007
95.0 -1.143	95.0 0.222	95.0 -0.652	95.0 -1.251	95.0 -0.923	95.0 -0.091	95.0 -0.316	95.0 -1.064
2.5 2.135	2.5 9.051	2.5 5.213	2.5 0.294	2.5 1.313	2.5 0.475	2.5 0.548	2.5 0.490
5.0 4.758	5.0 7.611	5.0 4.651	5.0 0.487	5.0 1.441	5.0 0.475	5.0 0.606	5.0 0.490
7.5 4.758	7.5 6.108	7.5 3.403	7.5 0.680	7.5 0.419	7.5 0.475	7.5 0.606	7.5 0.490
10.0 3.250	10.0 5.044	10.0 2.592	10.0 0.680	10.0 1.313	10.0 0.538	10.0 0.952	10.0 0.605
15.0 1.611	15.0 4.919	15.0 1.594	15.0 0.487	15.0 0.355	15.0 0.538	15.0 1.009	15.0 0.720 20.0 0.950
20.0 0.890	20.0 2.915	20.0 1.095	20.0 0.615	20.0 0.419 30.0 0.674	20.0 0.601 30.0 0.538	20.0 0.894 30.0 0.779	30.0 0.547
30.0 0.365	30.0 0.661	30.0 0.908	30.0 0.615	50.0 0.547	50.0 0.916	50.0 0.894	50.0 0.547
50.0 0.955	50.0 2.038 65.0 9.364	50.0 1.532 65.0 8.145	50.0 0.680 65.0 1.581	65.0 0.866	65.0 1.923	65.0/10.464	65.0 0.547
65.0 8.495 70.0 5.938	65.0 9.364 70.0 7.736	65.0 8.145 70.0 6.398	70.0 1.001	70.0 0.930	70.0 2.175	70.0 0.664	70.0 0.662
76.8 0.759	76.8 8.425	76.8 0.284	76.8 0.873	76.8 0.866	76.8 1.672	76.8 0.548	76.8 0.778
77.1 6.987	77.1 8.488	77.1 7.646	77.1 1.323	77.1 0.738	77.1 1.735	77.1 0.837	77.1 0.432
80.0 7.577		80.0 7.896	80.0 1.130	80.0 1.058	80.0 1.798	80.0 0.491	80.0 0.605
85.0 5.544		85.0 5.712	85.0 0.873	85.0 0.930	85.0 1.672	85.0 0.606	85.0 0.720
90.0 4.233	90.0 5.357	90.0 4.027	90.0 1.259	90.0 0.738	90.0 1.357	90.0 0.664	90.0 0.662
95.0 2.791	95.0 4.418	95.0 2.468	95.0 0.744	95.0 0.547	95.0 1.168	95.0 0.491	95.0 0.662
TOTAL NORMAL				,			
CN = 7.38	10.68	7.13	4.19	4.75	4.76	4.75	2.83

		ABLE V-94				
RUN 60, POINT 1	Q = 4.64	ALPHA =	O TCP =	0.60		
VALVE 1 VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP 100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
0. 0.017 06.343	03.405	00.386	02.214	0. 0.452	0. 0.253	0. 0.453
1.2 -0.883 1.2 -2.119	1.2 -1.154	1.2 -1.058	1.2 -1.812	1.2 -0.726	1.2 0.455	1.2 0.453
2.5 -0.838 2.5 -1.901	2.5 -1.630	2.5 -1.461	2.5 -1.768	2.5 -1.032	2.5 0.535	2.5 1.615
5.0 -1.018 5.0 -2.728	5.0 -2.453	5.0 -1.775	5.0 -2.080	5.0 -1.556	5.0 0.495	5.0 0.453
7.5 -1.062 7.5 -2.946	7.5 -2.886	7.5 -0.476	7.5 -2.392	7.5 -1.817	7.5 0.455	7.5 0.413
10.0 -1.737 10.0 -3.991	10.0 -3.232	10.0 -1.954	10.0 -2.303	10.0 -1.817	10.0 -2.120	10.0 -1.712
15.0 -2.187 15.0 -3.033	15.0 -3.102	15.0 -0.342	15.0 -2.214	15.0 -1.861	15.0 -2.040	15.0 -1.752
20.0 -2.546 20.0 -2.903	20.0 -2.929	20.0 -1.551	20.0 -2.169	20.0 -1.905	20.0 -2.040	20.0 -1.872 25.0 -1.872
25.0 -2.546 25.0 -3.164 30.0 -2.726 30.0 -3.295	25.0 -3.016 30.0 -2.972	25.0 -0.386 30.0 -1.999	25.0 -2.214 30.0 -2.259	25.0 -1.948 30.0 -1.948	25.0 -2.120 30.0 -1.959	30.0 -1.792
40.0 -2.591 40.0 -3.208	40.0 -2.756	40.0 -1.954	40.0 -2.214	40.0 -1.861	40.0 -1.919	40.0 -1.752
50.0 -2.681 50.0 -3.033	50.0 0.881	50.0 -1.954	50.0 -2.259	50.0 -1.861	50.0 -1.758	50.0 -1.752
60.0 -2.771 60.0 -3.208		60.0 -1.909	60.0 -2.259		60.0 -1.758	60.0 -1.712
61.5 -1.692 61.5 -1.291	61.5 -1.154	61.5 -0.028	61.5 -0.474	61.5 -0.203	61.5 2.949	61.5 -0.309
62.5 -5.694 62.5 -7.389	62.5 -5.873	62.5 -0.073	62.5 -1.411	62.5 -1.076	62.5 3.874	62.5 -1.271
65.0 -9.0.2 65.0-10.176	65.0 -8.341	65.0 -2.895	65.0 -3.418	65.0 -2.821	65.0 -2.804	65.0 -2.914
70.0 -6.774 70.0 -7.389	70.0 -6.176	70.0 -3.611	70.0 -3.463	70.0 -3.345	70.0 -2.723	70.0 2.577
75.0 -4.120 75.0 -4.296	75.0 -3.925	75.0 -2.760	75.0 -2.571	75.0 -2.341	75.0 0.374	75.0 -2.193
75.6-11.001 75.6-12.571	75.6-13.710	75.6 -1.417	75.6 -1.768	75.6 -1.992	75.6 -1.597	75.6 -1.511
76.3-10.101 76.3-11.352	76.3-12.498	76.3 -1.461	76.3 -2.169	76.3 -2.777	76.3 -1.959	76.3 2.056
77.1 0.826 77.1 -8.913	77.1 -8.341	77.1 -0.028	77.1 -2.392	77.1 -2.516	77.1 -1.798	77-1 0-573
78.6 2.535 78.6 3.674	78.6 3.349	78.6 0.644	78.6 0.552	78.6 1.106	78.6 0.656	78.6 3.419
80.0 -5.020 80.0 -4.863	80.0 -5.310	80.0 -2.939	80.0 -2.482	80.0 -1.992	80.0 -1.195	80-0 -1-752
85.0 -4.975 85.0 -1.553	85.0 -2.539	85.0 -2.491	85.0 -1.768	85.0 -1.250	85.0 -0.793	85.0 -1.431
90.0 -1.018 90.0 -0.681	90.0 -0.548	90.0 -1.058	90.0 -0.876	90.0 -0.421	90.0 -0.310	90.0 -0.589
95.0 -0.073 95.0 -0.028		95.0 -0.521	95.0 -0.563	95.0 -0.159	95.0 -0.109	95.0 -0.269 2.5 0.453
2.5 -0.568 2.5 4.327	2.5 1.444	2.5 0.599 5.0 0.509	2.5 1.622	2.5 0.408 5.0 0.408	2.5 0.495 5.0 0.495	5.0 0.453
5.0 0.017 5.0 3.674 7.5 0.661 7.5 2.890	5.0 2.526 7.5 2.483	5.0 0.509 7.5 0.733	5.0 1.265 7.5 0.284	5.0 0.408 7.5 0.408	7.5 0.455	7.5 0.453
10.0 1.096 10.0 2.454	10.0 2.267	10.0 0.644	10.0 0.909	10.0 0.408	10.0 0.535	10.0 0.573
15.0 1.366 15.0 2.454	15.0 1.574	15.0 0.554	15.0 0.284	15.0 0.408	15.0 0.374	15.0 0.413
20.0 1.231 20.0 1.627	20.0 1.141			20.0 0.408	20.0 0.414	20.0 0.854
30.0 0.871 30.0 0.930	30.0 0.838	30.0 0.644	30.0 0.373	30.0 0.408	30.0 0.334	30.0 0.252
50.0 0.916 50.0 1.932	50.0 1.920	50.0 0.599	50.0 0.329	50.0 0.321	50.0 0.937	50.0 0.333
65.0 2.985 65.0 4.196	65.0 4.258	65.0 1.047	65.0 1.355	65.0 1.194	65.0 3.713	65.0 0.934
70.0 2.895 70.0 4.458	70.0 4.215	70.0 0.868	70.0 0.775	70.0 0.801	70.0 0.696	70.0 0.693
76.8 0.781 76.8 4.850	76.8 C.188	76.8 0.823	76.8 0.730	76.8 1.412	76.8 0.656	76.8 0.733
77.1 3.569 77.1 4.327	77.1 3.955	77.1 0.823	77.1 0.864	77.1 1.281	77.1 0.696	77-1 0-693
80.0 1.771 80.0 3.587	80.0 3.739	80.0 1.002	80.0 1.176	80.0 1.456	80.0 0.776	80.0 0.773
85.0 4.334 85.0 4.850	85.0 4.388	85.0 0.554	85.0 0.686	85.0 1.586	85.0 0.776	85.0 0.733
90.0 4.289 90.0 4.763		90.0 0.509	90.0 0.507	90.0 1.412	90.0 0.575	90.0 0.693
95.0 3.569 95.0 4.632	95.0 3.782	95.0 0.464	95.0 0.329	95.0 1.063	95.0 0.414	95.0 0.613
TOTAL NORMAL COEFFICIENT	4 50	7 44	2.74	2 51	2.38	1.72
CN = 4.25 6.14	4.59	2.46	2.76	2.51	4.30	4012

TABLE	

RUN 60, PO	INT 4	9 = 4.64	ALPHA = 1	.2 TCP =	0.60		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	130X CP	190X CP	100X CP				
04.345	04.688	03.925	01.014	01.188	0. 0.452	0. 0.374	0. 0.493
1.2 -1.557	1.2 -2.990	1.2 -1.717	1.2 -2.178	1.2 -2.660	1.2 -1.468	1.2 0.535	1.2 0.533
2.5 -1.5.2	2.5 -3.469	2.5 -2.972	2.5 -3.029	2.5 -3.017	2.5 -2.210	2.5 0.535	2.5 1.335
5.0 -2.322	5.0 -4.427	5.0 -4.444	5.0 -3.566	5.0 -3.240	5.0 -3.388	5.0 0.575	5.0 0.533
7.5 -2.412	7.5 -4.514	7.5 -4.748	7.5 -0.924	7.5 -3.418	7.5 -3.476	7.5 0.535	7.5 0.533
10.0 -3.176	10.0 -4.340	10.0 -5.094	10.0 -3.387	10.0 -3.151	10.0 -3.257	10.0 -3.850	10.0 -3.195
15.0 -3.536 20.0 -3.761	15.0 -4.122	15.0 -4.444	15.0 -0.521	15.0 -3.106	15.0 -2.996	15.0 -3.608	15.0 -2.954
25.0 -3.581	20.0 -3.948 25.0 -4.079	20.0 -4.098	20.0 -2.671	20.0 -3.151	20.0 -2.952	20.0 -3.407	20.0 -2.994
30.0 -3.626	30.0 -4.209	25.0 -4.098 30.0 -3.925	25.0 -0.655	25.0 -3.151	25.0 -2.952	25.0 -3.327	25.0 -2.954
40.0 -3.266	40.0 -4.079	40.0 -3.535	30.0 -2.939 40.0 -2.671	30.0 -3.017 40.0 -2.928	30.0 -2.821	30.0 -3.085	30.0 -2.714
50.0 -3.221	50.0 -3.643	50.0 C.838	50.0 -2.536	50.0 -3.017	40.0 -2.603 50.0 -2.516	40.0 -2.804 50.0 -2.482	40.0 -2.593
60.0 -3.221	60.0 -3.469	60.0 -3.146	60.0 -2.402	60.0 -2.794	60.0 -2.472	60.0 -2.442	50.0 -2.513 60.0 -2.553
61.5 -2.636	61.5 -2.032	61.5 -1.890	61.5 -0.163	61.5 -0.340	61.5 0.059	61.5 2.627	61.5 -0.189
62.5 -5.919	62.5 -8.390	62.5 -6.696	62.5 -0.342	62.5 -1.634	62.5 -1.163	62.5 3.512	62.5 -1.712
65.0 -9.337	65.0-11.091	65.0 -9.510	65.0 -3.611	65.0 -3.864	65.0 -3.519	65.0 -3.649	65.0 -4.237
70.0 -6.729	70.0 -8.652	70.0 -7.389	70.0 -3.790	70.0 -3.909	70.0 -3.781	70-0 -3-447	70.0 2.256
75.0 -4.300	75.0 -5.124	75.0 -4.834	75.0 -2.850	75.0 -2.972	75.0 -2.603	75.0 0.857	75.0 -3.515
75.6-12.170	75.6-14.705	75.6-16.914	75.6 -1.685	75.6 -1.679	75.6 -1.861	75.6 -1.919	75.6 -2.273
76.3-11.136	76.3-12.746	76.3-15.182	76.3 -1.685	76.3 -2.348	76.3 -2.603	76.3 -2.321	76.3 1.655
77.1 0.736	77.1-10.437	77-1-10-203	77-1 -0-342	77.1 -2.660	77-1 -2-428	77.1 -2.241	77.1 0.533
78.6 2.760	78.6 3.848	78.6 3.479	78.6 0.868	78.6 0.284	78.6 0.801	78.6 0.656	78.6 3.098
80.0 -4.930	80.0 -5.908	80.0 -6.739	80.0 -2.850	80.0 -2.482	80.0 -1.861	80.0 -1.517	80.0 -2.874
85.0 -4.885	85.0 -2.162	85.0 -4.271	85.0 -2.491	85.0 -1.902	85.0 -1.250	85.0 -0.913	85.0 -1.992
90.0 -1.018	90.0 -0.638	90.0 -1.067	90.0 -1.372	90.0 -0.920	90.0 -0.421	90.0 -0.430	90.0 -0.790
95.0 -0.388		95.0 -0.071	95.0 -1.014	95.0 -0.653	95.0 -0.203	95.0 -0.390	95.0 -0.790
2.5 3.344	2.5 5.111	2.5 3.522	2.5 0.733	2.5 0.819	2.5 0.452	2.5 0.615	2.5 0.533
5.0 3.839 7.5 2.760	5.0 4.414 7.5 3.630	5.0 3.262 7.5 2.396	5.0 0.868	5.0 0.909	5.0 0.452	5.0 0.575	5.0 0.533
10.0 1.681	7.5 3.630 10.0 3.108	7.5 2.396 10.0 1.834	7.5 0.912 10.0 0.912	7.5 0.329	7.5 0.452	7.5 0.575	7.5 0.533
15.0 0.916	15.0 3.151	15.0 1.227	10.0 0.912 15.0 0.733	10.0 0.819 15.0 0.373	10.0 0.452 15.0 0.495	10.0 0.937 15.0 0.897	10.0 0.814
20.0 0.691	20.0 1.801	20.0 0.968	20.0 0.778	20.0 0.418	20.0 0.539	20.0 0.776	15.0 0.653 20.0 0.854
30.0 0.601	30.0 0.974	30.0 0.751	30.0 0.823	30.0 0.507	30.0 0.495	30.0 0.656	30.0 0.453
50.0 0.826	50.0 1.670	50.0 1.401	50.0 0.644	50.0 0.462	50.0 0.757	50.0 0.897	50.0 0.453
65.0 5.098	65.0 5.285	65.0 4.734	65.0 1.584	65.0 0.686	65.0 1.019	65.0 3.351	65.0 0.693
70.0 3.614	70.0 4.850	70.0 4.215	70.0 1.047	70.0 0.641	70.0 1.194	70.0 0.817	70.0 0.733
76.8 0.826	76.8 5.067	76.8 0.318	76.8 1.047	76.8 0.552	76.8 1.063	76.8 0.736	76.8 0.693
77.1 3.929	77.1 4.588	77.1 4.258	77.1 1.181	77.1 0.507	77.1 0.975	77-1 0-776	77.1 0.533
80.0 3.974	80.0 4.327	80.0 4.388	80.0 1.360	80.0 0.730	80.0 1.106	80.0 0.656	80.0 0.693
85.0 3.864	85.0 4.850	85.0 4.561	85.0 1.136	85.0 0.641	85.0 1.019	85.0 0.776	85.0 0.733
90.0 3.030	90.0 4.545	90.0 3.609	90.0 1.002	90.0 0.552	90.0 0.888	90.0 0.696	90.0 0.653
95.0 2.175	95.0 3.543	95.0 2.483	95.0 0.464	95.0 0.329	95.0 0.757	95.0 0.575	95.0 0.453
TOTAL NORMAL							
CN = 5.11	7.08	5.38	3.24	3.31	3.18	3.13	2.56

TABLE	V-96
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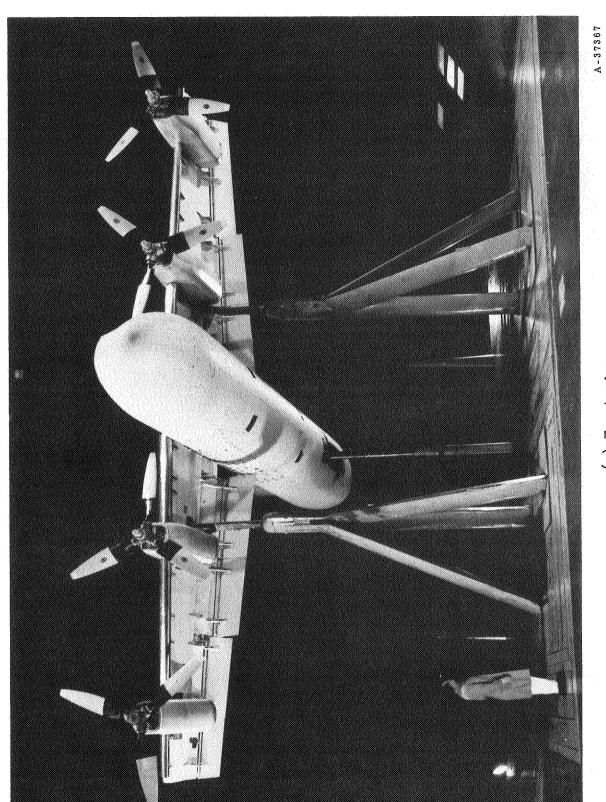
RUN 60, POI	INT 5	0 = 4.52	ALPHA = 1	.6 TCP =	0.60		
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9
100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP	100X CP
03.860	04.946	03.451	01.270	01.539	0. 0.509	0. 0.385	0. 0.548
1.2 -1.782	1.2 -3.381	1.2 -2.339	1.2 -2.695	1.2 -3.005	1.2 -1.775	1.2 0.467	1.2 0.466
2.5 -1.921	2.5 -3.739	2.5 -3.628	2.5 -3.522	2.5 -3.325	2.5 -2.537	2.5 0.550	2.5 1.330
5.0 -2.798	5.0 -4.723	5.0 -4.873	5.0 -3.936	5.0 -3.417	5.0 -3.791	5.0 0.550	5.0 0.507
7.5 -2.890	7.5 -4.589	7.5 -5.273	7.5 -0.994	7.5 -3.554	7.5 -3.746	7.5 0.509	7.5 0.507
10.0 -3.675	10.0 -4.499	10.0 -5.540	10.0 -3.614	10.0 -3.371	10.0 -3.522	10.0 -4.323	10.0 -3.649
15.0 -3.906	15.0 -4.454	15.0 -4.784	15.0 -0.626	15.0 -3.554	15.0 -3.209	15.0 -3.951	15.0 -3.320
20.0 -4.091	20-0 -4-320	20.0 -4.384	20.0 -3.063	20.0 -3.600	20.0 -3.209	20.0 -3.827	20.0 -3.402
25.0 -3.906	25.0 -4.454	25.0 -4.384	25.0 -0.672	25.0 -3.325	25.0 -3.074	25.0 -3.621	25.0 -3.279
30.0 -3.906	30.0 -4.499	30.0 -4.117	30.0 -2.971	30-0 -3-234	30.0 -2.940	30.0 -3.332	30.0 -2.950
40.0 -3.398	40.0 -4.186	40.0 -3.539	40.0 -2.649	40.0 -3.096	40.0 -2.671	40-0 -3-001	40.0 -2.950
50.0 -3.306	50.0 -3.739	50.0 0.727	50.0 -2.465	50.0 -3.096	50.0 -2.537	50.0 -2.671	50.0 -2.744
60.0 -3.260	60.0 -3.650	60.0 -3.095	60.0 -2.327	60.0 -2.776	60.0 -2.447	60.0 -2.506	60.0 -2.785
61.5 -2.336	61.5 -2.621	61.5 -2.117	61.5 -0.304	61.5 -0.166	61.5 0.151	61.5 2.491	61.5 -0.234
62.5 -5.937	62.5 -7.808	62.5 -6.340	62.5 -0.166	62.5 -1.494	62.5 -1.103	62.5 3.523	62.5 -2.003
65.0 -9.492	65.0-10.445	65.0 -9.095	65.0 -3.063	65.0 -3.691	65.0 -3.388	65.0 -3.662	65.0 -4.554
70.0 -6.906	70.0 -7.808	70.0 -6.740	70.0 -3.384	70.0 -3.875	70.0 -3.657	70.0 -3.414	70.0 2.070
75.0 -4.183	75.0 -4.544	75.0 -4.206	75.0 -2.511	75.0 -2.867	75.0 -2.358	75.0 0.674	75.0 -4.019
75.6-12.169	75.6-13.083	75.6-15.007	75.6 -1.591	75.6 -1.677	75.6 -1.730	75.6 -1.763	75.6 -2.785
76.3 -9.630	76.3-10.758	76.3-12.651	76.3 -1.591	76.3 -2.318	76.3 -2.358	76.3 -2.217	76.3 1.700
77.1 0.664	77.1 -8.791	77.1 -8.295	77-1 -0-442	77.1 -2.592	77-1 -2-178	77.1 -2.134	77.1 0.383
78.6 2.511	78.6 3.593	78.6 3.528	78.6 0.891	78.6 0.338	78.6 0.823	78.6 0.633	78.6 3.099
80.0 -5.198	80.0 -5.483	80.0 -5.984	80.0 -2.649	80.0 -2.501	80.0 -1.730	80.0 -1.391	80.0 -3.484
85.0 -5.106	85.0 -1.772	85.0 -3.673	85.0 -2.327	85.0 -1.768	85.0 -1.103	85.0 -0.854	85.0 -2.332
90.0 -0.813	90.0 -0.520	90.0 -0.962	90.0 -1.270	90.0 -0.898	90.0 -0.342	90.0 -0.317	90.0 -0.892
95.0 -0.167	95.0 -0.565	95.0 -0.250	95.0 -0.994	95.0 -0.578	95.0 -0.118	95.0 -0.400	95.0 -0.810
2.5 2.834	2.5 5.471	2.5 3.750	2.5 0.707	2.5 0.796	2.5 0.554	2.5 0.550	2.5 0.548
5.0 2.880	5.0 4.756	5.0 2.861	5.0 0.845	5.0 0.796	5.0 0.509	5.0 0.550	5.0 0.507
7.5 2.003	7.5 3.861		7,5 0,891	7.5 0.292	7.5 0.509	7.5 0.509	7.5 0.466
10.0 1.403	10.0 3.325	10.0 1.616	10.0 0.937	10.0 0.842	10.0 0.509	10.0 0.963	10.0 0.795
15.0 0.803	15.0 3.280	15.0 1.172	15.0 0.753	15.0 0.384	15.0 0.554	15.0 0.880	15.0 0.712
20.0 0.6.8	20.0 1.805	20.0 0.950	20.0 0.845	20.0 0.430	20.0 0.599	20.0 0.880	20.0 0.754
30.0 0.526	30.0 1.045	30.0 0.772	30.0 0.845	30.0 0.567	30.0 0.554	30.0 0.633	30.0 0.507
50.0 0.803	50.0 1.492	50.0 1.261	50.0 0.707	50.0 0.475	50.0 0.823	50.0 0.756	50.0 0.383
65.0 5.004	65.0 5.605	65.0 4.950	65.0 1.397	65.0 0.750	65.0 1.047	65.0 3.275	65.0 0.630
70.0 2.972	70.0 4.309	70.0 3.883	70.0 1.029	70.0 0.704	70.0 1.271	70.0 0.756	70.0 0.673
76.8 0.757	76.8 4.622	76.8 0.327	76.8 0.983	76.8 0.659	76.8 1.002	76.8 0.633	76.8 0.630
77.1 3.942	77.1 4.309	77.1 4.372	77.1 1.075	77.1 0.567	77.1 0.913	77.1 0.756	77.1 0.466
80.0 3.757	80.0 4.309	80.0 4.772	80.0 1.259	80.0 0.796	80.0 1.092	80.0 0.591	80.0 0.754
85.0 3.619	85.0 3.861	85.0 4.061	85.0 0.845	85.0 0.659	85.0 1.047	85.0 0.591	85.0 0.630
90.0 2.695	90.0 3.414	90.0 2.727	90.0 0.845	90.0 0.567	90.0 0.913	90-0 0-550	90.0 0.630
95.0 1.911 TOTAL NORMAL		95.0 1.750	95.0 0.478	95.0 0.430	95.0 0.778	95.0 0.591	95.0 0.507
V = 5.10	6.91	5.22	3.16	3.44	3.26		

TARLE V-97

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	RUN 5	9 <b>,</b> POI	NT 1	Q	= 3.28	AL	PHA =	0	TCP =	1.40					
100X CP 100X C	VALVE	1	VALUE 3	VA	IVE A	VALV	F 5	VALV	F 6	VALV	F 7	VALV	E 8	VALV	E 9
1.2 -   1.13   1.2 - 2.966   1.2 - 1.498															
1.2 - 1.173										0.	0-527	0-	0-199	0.	0.652
2.5 - 1.110															
5.0 — 1.046         5.0 — 3.663         5.0 — 3.397         5.0 — 2.626         5.0 — 3.120         5.0 — 1.695         5.0 0.0541         5.0 0.0596           17.5 — 1.046         7.5 — 4.156         7.5 — 3.087         7.5 — 1.042         7.5 — 3.497         7.5 — 2.004         7.5 — 7.5 0.655         7.5 0.655 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
7.5 - 1.046 7.5 - 4.156 7.5 - 3.887 7.5 - 1.042 7.5 - 3.489 9 7.5 - 2.004 7.5 0.655 7.5 0.481 0.0 - 2.013 15.0 - 3.725 10.0 - 4.483 10.0 - 2.013 15.0 - 2.446 15.0 - 4.279 15.0 - 4.254 15.0 - 0.979 15.0 - 3.246 15.0 - 2.251 15.0 - 2.304 15.0 - 2.013 15.0 - 2.485 12.0 - 2.213 15.0 - 2.304 15.0 - 2.304 15.0 - 2.203 15.0 - 2.3145 20.0 - 4.079 20.0 - 4.095 20.0 - 4.095 20.0 - 4.095 20.0 - 4.095 20.0 - 4.095 20.0 - 4.095 20.0 - 4.095 20.0 - 4.254 25.0 - 0.979 25.0 - 3.246 25.0 - 2.251 20.0 - 2.191 20.0 - 2.069 25.0 - 3.243 20.0 - 4.111 30.0 - 4.254 25.0 - 0.979 25.0 - 3.246 25.0 - 2.436 20.0 - 2.304 25.0 - 2.013 30.0 - 3.604 30.0 - 4.111 30.0 - 3.887 40.0 - 3.006 30.0 - 3.373 30.0 - 2.436 30.0 - 2.134 30.0 - 1.843 40.0 - 3.007 4.111 40.0 - 3.887 40.0 - 3.005 30.0 - 3.499 30.0 - 2.498 50.0 - 2.017 40.0 - 2.013 50.0 - 3.645 50.0 - 4.541 50.0 1.381 50.0 - 2.943 50.0 - 3.499 50.0 - 2.498 50.0 - 2.077 40.0 - 2.013 50.0 - 3.645 50.0 - 5.512 50.0 - 3.645 60.0 - 3.069 60.0 - 3.645 60.0 - 3.645 60.0 - 3.645 60.0 - 3.605 60.0 - 3.64															
10.0 - 1.746 10.0 - 3.725 10.0 - 4.438 10.0 - 2.816 10.0 - 3.246 15.0 - 2.2818 10.0 - 2.418 10.0 - 2.013 15.0 - 2.246 15.0 - 4.279 15.0 - 4.254 15.0 - 0.979 15.0 - 3.246 15.0 - 2.251 15.0														7.5	
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\$\frac{30.0}{0.0} - 3.654 \ \frac{30.0}{0.0} - 4.711 \ \frac{30.0}{0.0} - 4.913 \ \frac{30.0}{0.0} - 3.006 \ \frac{30.0}{0.0} - 3.373 \ \frac{30.0}{0.0} - 2.436 \ \frac{40.0}{0.0} - 2.013 \ \frac{40.0}{0.0} - 3.654 \ \frac{50.0}{0.0} - 3.654 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.499 \ \frac{60.0}{0.0} - 2.621 \ \frac{60.0}{0.0} - 2.020 \ \frac{60.0}{0.0} - 1.826 \ \frac{60.0}{0.0} - 3.654 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 2.621 \ \frac{60.0}{0.0} - 2.020 \ \frac{60.0}{0.0} - 1.826 \ \frac{60.0}{0.0} - 3.684 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 2.621 \ \frac{60.0}{0.0} - 2.020 \ \frac{60.0}{0.0} - 1.826 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 3.695 \ \frac{60.0}{0.0} - 2.621 \ \frac{60.0}{0.0} - 2.021 \ \frac{60.0}{0.0} - 3.686 \ \frac{60.0}{0.0} - 2.525 \ \frac{62.5}{0.0} - 1.695 \ \frac{62.5}{0.2} - 1.689 \ \frac{60.0}{0.0} - 2.525 \ \frac{62.5}{0.0} - 1.404 \ \frac{60.0}{0.0} - 1.733 \ \frac{60.0}{0.0} - 1.0866 \ \frac{70.0}{0.0} - 2.689 \ \frac{60.0}{0.0} - 5.581 \ \frac{60.0}{0.0} - 5.337 \ \frac{60.0}{0.0} - 3.386 \ \frac{60.0}{0.0} - 1.0866 \ \frac{70.0}{0.0} - 1.0866 \	20.0 -	3.145	20.0 -4.	095 20.	0 -4.009	20.0	-1.739	20.0	-3.183	20.0	-2.251			20.0	-2.069
\$\frac{40.0}{0.0} = \frac{400}{0.0} \tag{40.0} \tag{40.1}{40.0} = \frac{4}{40.0} \tag{40.0}{1.381} \tag{40.0} = \frac{2}{3.687} \tag{40.0} = \frac{2}{3.699} \tag{40.0} = \frac{2}{3.699} \tag{50.0} = \frac{2}{3.692} \tag	25.0 -	3.273	25.0 -4.	464 25.	0 -4.254	25.0	-0.979	25.0	-3.246						
\$\frac{50.0}{0.0} - 3.654 \ 50.0 \ - 4.341 \ 50.0 \ 1.281 \ 50.0 \ - 2.943 \ 50.0 \ - 3.499 \ 50.0 \ - 2.498 \ 50.0 \ - 2.077 \ 50.0 \ - 1.786 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	30.0 -	3.654	30.0 -4.	711 30.	0 -4.193	30.0	-3.006	30.0	-3.373						
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20.0 1.053 20.0 2.559 20.0 1.442 20.0 0.352 20.0 0.035 20.0 0.589 20.0 0.598 20.0 1.276 30.0 1.117 30.0 1.266 30.0 1.013 30.0 0.479 30.0 0.035 30.0 0.589 30.0 0.541 30.0 0.255 30.0 1.562 50.0 3.114 50.0 2.973 50.0 0.479 30.0 0.028 50.0 0.666 50.0 1.281 50.0 0.359 65.0 4.488 65.0 7.304 65.0 7.505 65.0 0.669 65.0 2.180 65.0 1.886 65.0 7.205 65.0 0.667 70.0 4.679 70.0 7.673 70.0 7.267 70.0 0.605 70.0 1.010 70.0 1.515 70.0 0.7687 70.0 0.652 76.8 1.371 76.8 8.351 76.8 0.033 76.8 0.669 70.0 1.234 70.0 7.057 70.0 0.652 77.1 6.015 77.1 7488 77.1 7.015 77.1 0.732 77.1 1.423 77.1 1.474 77.1 0.939 77.1 0.596 80.0 4.170 80.0 6.318 80.0 6.525 80.0 0.659 80.0 2.117 80.0 2.503 80.0 0.712 80.0 0.768 85.0 7.733 85.0 8.351 85.0 7.719 90.0 0.225 90.0 0.477 90.0 2.318 90.0 0.655 90.0 0.652 90.0 7.160 90.0 8.289 90.0 7.199 90.0 0.225 90.0 0.477 90.0 2.318 90.0 0.655 90.0 0.652 95.0 6.142 95.0 8.228 95.0 6.342 95.0 0.162 95.0 0.098 95.0 1.762 95.0 0.828 95.0 0.565															
30.0 1.117 30.0 1.266 30.0 1.013 30.0 0.479 30.0 0.035 30.0 0.599 30.0 0.541 30.0 0.255 50.0 1.562 50.0 3.114 50.0 2.973 50.0 0.479 50.0 0.028 50.0 0.466 50.0 1.281 50.0 0.369 65.0 4.886 65.0 7.304 65.0 7.505 65.0 0.669 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 0.369 65.0 2.100 65.0 1.886 65.0 7.085 65.0 0.369 65.0 2.100 65.0 1.085 65.0 0.369 65.0 2.100 65.0 1.085 65.0 0.369															
50.0 1.562 50.0 3.114 50.0 2.973 50.0 0.479 50.0 -0.028 50.0 0.466 50.0 1.281 50.0 0.369 65.0 4.488 65.0 7.304 65.0 7.505 65.0 0.669 65.0 2.180 65.0 1.886 65.0 7.085 65.0 0.7669 65.0 0.669 65.0 2.180 65.0 1.886 65.0 7.005 65.0 0.7668 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.7668 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.7668 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.7668 70.0 0.665 70.0 1.008 70.0 1.815 70.0 0.768 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.768 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.768 70.0 0.665 70.0 1.886 65.0 7.005 65.0 0.768 70.0 0.652 70.0 1.886 65.0 7.005 65.0 0.768 70.0 0.652 70.0 1.886 65.0 7.005 70.0 1.886 65.0 0.768 70.0 0.652 70.0 1.886 65.0 70.0 1.886 65.0 7.005 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 70.0 1.886 65.0 1.886 65.0 70.0 1.886 65.0 1.8															
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70.0 4.679 70.0 7.673 70.0 7.260 70.0 0.605 70.0 1.108 70.0 1.515 70.0 0.768 70.0 0.652 76.8 1.371 76.8 8.351 76.8 0.033 76.8 0.669 76.8 1.234 76.8 2.132 76.8 0.825 76.8 0.766 77.1 6.015 77.1 7.488 77.1 7.015 77.1 0.732 77.1 1.423 77.1 1.947 77.1 0.939 77.1 0.939 77.1 0.596 80.0 4.170 80.0 6.318 80.0 6.525 80.0 0.859 80.0 2.117 80.0 2.503 80.0 0.712 80.0 0.766 85.0 7.733 85.0 8.351 85.0 7.750 85.0 0.415 85.0 1.045 85.0 2.256 85.0 0.825 85.0 0.825 90.0 7.109 90.0 0.225 90.0 0.477 90.0 2.318 90.0 0.655 90.0 0.825 90.0 0.826 95.0 0.825															
76.8 1.371 76.8 8.351 76.8 0.333 76.8 0.669 76.8 1.234 76.8 2.132 76.8 0.825 76.8 0.766 77.1 6.015 77.1 7.488 77.1 7.015 77.1 0.732 77.1 1.423 77.1 1.947 77.1 0.939 77.1 0.596 80.0 4.170 80.0 6.318 80.0 6.525 80.0 0.859 80.0 2.117 80.0 2.503 80.0 0.712 80.0 0.766 85.0 7.733 85.0 8.351 85.0 7.750 85.0 0.415 85.0 1.045 85.0 2.256 85.0 0.825 85.0 0.825 90.0 7.109 90.0 8.289 90.0 7.199 90.0 0.225 90.0 0.417 90.0 2.318 90.0 0.655 90.0 0.652 90.0 0.655 95.0 0.822 95.0 6.342 95.0 6.342 95.0 0.662 95.0 0.098 95.0 1.762 95.0 0.882 95.0 0.596															
77.1 6.015 77.1 7.488 77.1 7.015 77.1 0.732 77.1 1.423 77.1 1.947 77.1 0.939 77.1 0.596 80.0 4.170 80.0 6.318 80.0 6.525 80.0 0.859 80.0 2.117 80.0 2.503 80.0 0.712 80.0 0.768 85.0 7.733 85.0 8.351 85.0 7.750 85.0 0.415 85.0 1.045 85.0 2.256 85.0 0.825 85.0 0.825 90.0 0.416 90.0 0.477 90.0 2.318 90.0 0.655 85.0 0.825 95.0 0.825 95.0 0.625												76.8	0.825	76.8	0.766
80-0 4-170 80-0 6-318 80-0 6-525 80-0 0-859 80-0 2-117 80-0 2-503 80-0 0-712 80-0 0-766 85-0 1-733 85-0 8-251 85-0 7-730 85-0 0-455 85-0 1-856 85-0 1-856 85-0 1-856 85-0 1-856 85-0 1-856 85-0 1-856 85-0 0-855										77.1	1.947	77.1	0.939	77-1	0.596
85.0 7.733 85.0 8.351 85.0 7.750 85.0 0.415 85.0 1.045 85.0 2.256 85.0 0.625 85.0 0.822 90.0 7.100 90.0 8.289 90.0 7.199 90.0 0.225 90.0 0.477 90.0 2.318 90.0 0.655 90.0 0.652					0 6.525	80.0		80.0	2.117						
90.0 7.160 90.0 8.289 90.0 7.199 90.0 0.225 90.0 0.477 90.0 2.318 90.0 0.655 90.0 0.652 95.0 6.142 95.0 8.228 95.0 6.342 95.0 0.162 95.0 0.098 95.0 1.762 95.0 0.882 95.0 0.596 TOTAL NORMAL COEFFICIENT					0 7.750	85.0	0.415	85.0							
TOTAL NORMAL COEFFICIENT		7.160	90.0 8.												
					0 6.342	95.0	0.162	95.0	0.098	95.0	1.762	95.0	0.882	95.0	0.596
= 6.33 9.89 7.11 3.22 4.06 3.61 3.20 1.68												_		_	
	N = 6.	33	9.89		7.11	3	• 22		-06	3	.61		1.20		• 05

	TABLE V-yo								
RUN 59, POINT 4 Q = 3.44 ALPHA = 12 TCP = 1.40									
VALVE 1	VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	VALVE 8	VALVE 9		
100X CF		100X CP	100X CP	100X CP	100X CP	100X CP	100x CP		
01.6	05 09.193	04.291	01.418	00.991	0. 0.443	0. 0.297	0. 0.458		
1.2 -2.5			1.2 -2.928	1.2 -2.916	1.2 -1.323	1.2 0.460	1.2 0.458		
2.5 -2.4	454 2.5 -4.493	2.5 -3.766	2.5 -3.894	2.5 -3.518	2.5 -2.324	2.5 0.569	2.5 3.324		
5.0 -2.4		5.0 -5.810	5.0 -4.438	5.0 -3.819	5.0 -3.913	5.0 0.514	5.0 0.458		
7.5 -2.3	7.5 -5.903	7.5 -6.394	7.5 -1.176	7.5 -4.120	7.5 -4.325	7.5 0.514	7.5 0.404		
10.0 -3.0			10.0 -4.197	10.0 -3.819	10.0 -4.148	10.0 -4.477	10.0 -3.704		
15.0 -4.2			15.0 -0.693	15.0 -3.759	15.0 -3.795	15.0 -3.989	15.0 -3.488		
20.0 -4.			20.0 -3.290	20.0 -3.939	20.0 -3.795	20.0 -3.935	20.0 -3.380		
25.0 -4.0			25.0 -0.874	25.0 -4.240	25.0 -3.736	25.0 -3.718	25.0 -3.380		
30.0 -4.			30.0 -3.653		30.0 -3.678	30.0 -3.447 40.0 -3.121	30.0 -3.002 40.0 -3.002		
40.0 -4.			40.0 -3.411	40.0 -3.879	40.0 -3.383	50.0 -3.012	50.0 -2.839		
50.0 -4.3			50.0 -3.290	50.0 -3.939	50.0 -3.383 60.0 -3.383	60.0 -2.741	60.0 -2.948		
61.5 -3.1			60.0 -3.230	60.0 -3.759	61.5 -0.028	61.5 5.072	61.5 -0.244		
62.5 -9.			62.5 -0.451	62.5 -2.254	62.5 -1.794	62.5 6.374	62.5 -2.191		
65-0-14-			65.0 -4.559	65.0 -5.203	65.0 -5.031	65.0 -4.206	65.0 -4.786		
70.0-11.0			70.0 -5.344	70.0 -5.383	70.0 -5.855	70.0 -3.935	70.0 4.783		
75.0 -6.			75.0 -4.015	75.0 -3.999	75.0 -4.207	75.0 0.786	75.0 -4.029		
75.6-20.			75.6 -2.565	75.6 -2.375	75.6 -3.383	75.6 -2.144	75-6 -3-002		
76.3-18.			76.3 -2.505	76.3 -3.277	76.3 -4.502	76.3 -2.741	76.3 4.081		
77.1 0.			77.1 1.240	77.1 -3.698	77-1 -4-207	77-1 -2-578	77-1 0-242		
	642 78.6 6.19		78.6 1.301	78.6 0.453	78.6 1.620	78.6 0.623	78.6 5.811		
80.0 -8.			80.0 -4.317	80.0 -3.638	80.0 -3.619	80.0 -1.765	80.0 -3.434		
85.0 -8.			85.0 -3.713	85.0 -2.555	85.0 -2.147	85.0 -1.222	85.0 -2.245		
90.0 -1.	909 90.0 -1.203	90.0 -1.547	90.0 -2.082	90.0 -1.232	90.0 -0.676	90.0 -0.679	90.0 -1.109		
95.0 -0.	695 95.0 -0.733	95.0 -0.145	95.0 -1.720	95.0 -0.810	95.0 -0.146	95.0 -0.517	95.0 -1.001		
2.5 0.	760 2.5 8.190	2.5 4.060	2.5 0.636	2.5 1.476	2.5 0.443	2.5 0.623	2.5 0.404		
	278 5.0 7.021		5.0 0.818	5.0 1.536	5.0 0.443	5.0 0.514	5.0 0.458		
	703 7.5 5.553		7.5 0.878	7.5 0.513	7.5 0.443	7.5 0.569	7.5 0.458		
	429 10.0 4.67		10.0 0.878	10.0 1.356	10.0 0.443	10.0 0.894	10.0 0.512 15.0 0.621		
	913 15.0 4.61		15.0 0.697	15.0 0.453	15.0 0.560	15.0 0.948			
	064 20.0 2.55		20.0 0.818	20.0 0.453	20.0 0.502	20.0 0.894 30.0 0.623	20.0 0.945 30.0 0.458		
	518 30.0 0.97		30.0 0.818	30.0 0.694	30.0 0.443 50.0 0.737	50.0 0.894	50.0 0.242		
	942 50.0 2.32 857 65.0 8.54		50.0 0.636 65.0 1.905	50.0 0.513 65.0 0.995	65.0 1.620	65.0 6.212	65.0 0.675		
	857 65.0 8.54° 491 70.0 7.78		70.0 1.361	70.0 0.754	70.0 1.973	70.0 0.677	70.0 0.512		
	882 76.8 8.43		76.8 1.301	76.8 0.694	76.8 1.561	76.8 0.514	76.8 0.621		
	644 77-1 7-43		77-1 1-663	77.1 0.754	77.1 1.738	77.1 0.677	77.1 0.404		
	523 80.0 7.19		80.0 1.845	80.0 0.995	80.0 1.797	80.0 0.623	80.0 0.675		
	341 85.0 7.84		85.0 0.999	85.0 0.754	85.0 1.620	85.0 0.514	85.0 0.566		
	703 90.0 6.66		90.0 0.757		90.0 1.443	90.0 0.406	90.0 0.566		
	914 95.0 6.55				95.0 1.090	95.0 0.894	95.0 0.296		
	MAL COEFFICIENT						1		
CN . 7-27		7.66	4.02	4.33	4.28	3.80	2.62		

RUN 59, POINT 5	9 = 3.32	ALPHA = 1	.6 TCP =	1.40		
VALVE 1 VALVE 3	VALVE 4	VALVE 5	VALVE 6	VALVE 7	WALLET O	244.45
	P 100X CP	100X CP	100X CP	100X CP	VALVE 8 100x CP	VALVE 9 100X CP
05.559 09.	159 03.780		01.400	0. 0.460	0. 0.309	0. 0.420
1.2 -2.668 1.2 -4.		1.2 -4.660	1.2 -3.332	1.2 -1.797	1.2 0.422	1.2 0.532
2.5 -2.479 2.5 -4.			2.5 -4.018	2.5 -2.834	2.5 0.534	2.5 3.277
5.0 -2.479 5.0 -6.	541 5.0 -6.200	5.0 -5.912	5.0 -4.143	5.0 -4.602	5.0 0.365	5.0 0.476
7.5 -2.542 7.5 -6.	298 7.5 -6.805	7.5 -1.280	7.5 -4.392	7.5 -4.785	7.5 0.478	7.5 0.364
10.0 -4.113 10.0 -4.	289 10.0 -7.290	10.0 -3.972	10.0 -4.143	10.0 -4.602	10.0 -5.088	10.0 -3.949
15.0 -4.742 15.0 -6.		15.0 -0.654	15.0 -4.392	15.0 -4.236	15.0 -4.695	_15.0 -3.725
20.0 -5.056 20.0 -5.		20.0 -3.095	20.0 -4.828	20.0 -4.114	20.0 -4.470	20-0 -3-669
25.0 -4.930 25.0 -6.			25.0 -4.766	25.0 -4.053	25.0 -4.132	25.0 -3.557
30.0 -4.930 30.0 -6.		30.0 -3.471	30.0 -4.392	30.0 -3.871	30-0 -3-851	30.0 -3.221
40.0 -4.365 40.0 -5.			40.0 -4.205	40.0 -3.566	40.0 -3.401	40.0 -3.221
50.0 -4.302 50.0 -5.		50.0 -3.283	50.0 -4.205	50.0 -3.505	50.0 -3.120	50.0 -2.997
60.0 -4.428 60.0 -6.		60.0 -3.283	60.0 -3.893	60.0 -3.444	60.0 -2.895	60-0 -9-053
61.5 -3.611 61.5 -3.			61.5 -0.402	61.5 -0.150	61.5 4.975	61.5 -0.420
62.5 -8.324 62.5-12.			62.5 -2.210	62.5 -1.675	62.5 6.325	62.5 -2.269
65.0-14.169 65.0-16.		65.0 -3.909	65.0 -5.327	65.0 -5.029	65.0 -4.3C1	65.0 -5.070
70.0-10.524 70.0-12.		70.0 -4.410	70.0 -5.452	70.0 -6.005	70.0 -4.076	70.0 4.789
75.0 -6.502 75.0 -7.		75.0 -3.596	75.0 -4.080	75.0 -4.114	75.0 0.928	75.0 -4.510
75.6-20.014 75.6-21.		75.6 -2.469	75.6 -2.460	75.6 -3.261	75.6 -2.221	75.6 -3.109
76.3-17.311 76.3-18.		76.3 -2.469	76.3 -3.332	76.3 -4.175	76.3 -2.671	76.3 4.005
77.1 0.789 77.1-15.		77.1 1.036	77.1 -3.769	77.1 -3.810	77.1 -2.671	77.1 0.252
78.6 4.685 78.6 6.		78.6 1.286	78.6 0.408	78.6 1.314	78.6 0.590	78.6 5.798
80.0 -8.701 80.0 -8.		80.0 -3.972	80.0 -3.706	80-0 -3-139	80.0 -1.659	80.0 -3.893
85.0 -8.638 85.0 -2.			85.0 -2.584	85.0 -1.858	85.0 -1.209	85.0 -2.549
90.0 -1.411 90.0 -1.			90.0 -1.337	90.0 -0.577	90.0 -0.703	90.0 -1.149
95.0 -0.468 95.0 -1.			95.0 -0.901	95.0 -0.211	95.0 -0.590	95.0 -1.037
	859 2.5 4.813	2.5 0.473	2.5 1.468	2.5 0.399	2.5 0.422	2.5 0.476
	337 5.0 4.692	5.0 0.723	5.0 1.468	5.0 0.399	5.0 0.478	5.0 0.420
	876 7.5 3.300	7.5 0.848	7.5 0.408	7.5 0.399	7.5 0.478	7.5 0.476
	902 10.0 2.513	10.0 0.911	10.0 1.156	10.0 0.399	10.0 0.928	10.0 0.924
	902 15.0 1.485	15.0 0.723	15.0 0.284	15.0 0.460	15.0 0.759	15.0 0.756
	589 20.0 1.061	20.0 0.911	20.0 0.346	20.0 0.521	20.0 0.871	20.0 0.924
	007 30.0 0.879	30.0 0.911	30.0 0.595	30.0 0.460	30.0 0.590	30.0 0.644
	041 50.0 1.666 163 65.0 8.141		50.0 0.408	50.0 0.765	50.0 0.871	50.0 0.364
		65.0 2.100	65.0 0.845	65.0 1.558	65.0 6.100	65.0 0.644
	459 70.0 6.689 006 76.8 0.274	70.0 1.098	70.0 0.658	70.0 1.923	70.0 0.590	70-0 0-588
		76.8 1.098	76.8 0.658	76.8 1.497	76.8 0.478	76-8 0-644
		77.1 1.474	77.1 0.658	77-1 1-679	77.1 0.646	77.1 0.364
		80.0 1.349	80.0 0.969	80.0 1.740	80.0 0.478	80.0 0.700
	180 85.0 6.931 754 90.0 4.813	85.0 0.973 90.0 0.535	85.0 0.720 90.0 0.533	85.0 1.497	85.0 0.478 90.0 0.309	85.0 0.588
	415 95.0 3.058	95.0 0.222	90.0 0.533 95.0 0.346	90.0 1.192 95.0 0.948	90.0 0.309 95.0 0.646	90.0 0.588 95.0 0.420
TOTAL NORMAL COEFFICIE		-Jeu U+222	7200 00340	95.0 0.948	736U V6040	95.0 0.420
CN = 7.08 10.42		3.92	4.51	4.36	3.92	2.89



(a) Front view.

Figure 1.- Model in the Ames 40- by 80-Foot Wind Tunnel.

A-37369

(b) Rear view.

Figure 1. - Concluded.

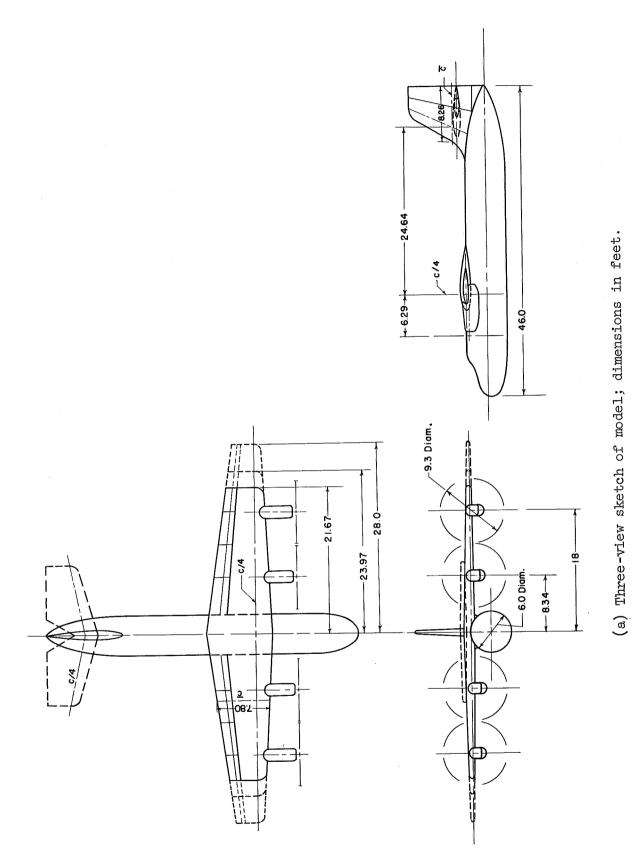
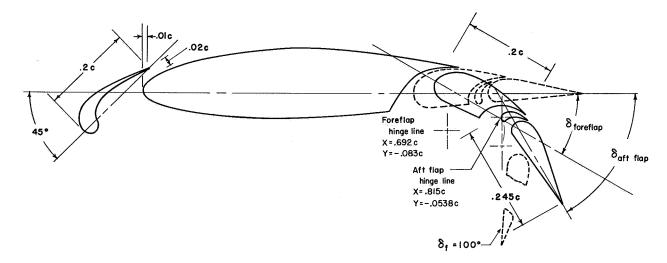


Figure 2. - Model geometry.

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(b) Geometry of leading-edge slat and triple-slotted flap.

Figure 2. - Concluded.

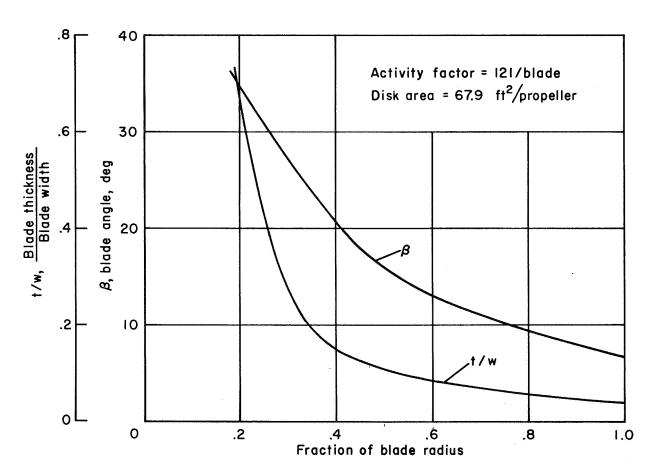


Figure 3.- Propeller blade characteristics.

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